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PUBLIC HEALTH REPORTS.

VOL. XXV. APRIL 1, 1910. No. 13.

A PARASITIC AND A PREDATORY ENEMY OF THE FLEA.

By M. B. MITZMAIN, B. S., Assistant, Plague Laboratory, Public Health and Marine-Hospital Service, San Francisco, Cal.,

A suggestion of the presence of a parasite on the flea is advanced by Burnett Ham in "A Report on Plague in Queensland" 1900, page 160. He relates the finding of a mite (*Holaspis sp.*), a *Gamasid*, on the brown rat. Ham states that the occurrence of this mite on rats may be accounted for by the fact that it is predatory on insects and may be partial to rat fleas.

There has come to the writer's notice in the literature on American *Siphonaptera*, a single instance of a parasite of a flea. Passed Asst. Surg. Carroll Fox, of the United States Public Health and Marine-Hospital Service, placed on record (Entomological News, July, 1909) a note describing a new mite, the hypopial stage of a *Gamasus*, found on *Ceratophyllus fasciatus Bosc.*, the common brown rat flea of San Francisco. Fox, who examined nearly 20,000 rat fleas found but 3 nstances of this unique parasitism in *Siphonaptera*. He made an attempt to transfer this mite from flea host to flea, but unfortunately lost the specimen in the attempt.

Prior to the note in the Entomological News, the writer encountered one instance of the flea mite in an examination of thousands of preserved and live specimens. However, since the appearance of Fox's article, 4 specimens were found on a flea (*C. fasciatus*) of the brown rat in San Francisco. These mites, we learned subsequently, were of the same species as that found previously by the writer. Fox, who compared these mites with those he collected, found that they differed essentially. The mite described by Fox has shorter tarsi and there are fewer bristles on the legs. It is on the average somewhat smaller in size and less globular in form than that observed by the present writer.

Mites of the species under consideration have recently been found on fleas collected from squirrels shot in Solano County, 60 miles from San Francisco. Fifteen fleas of the species, *C. acutus*, were found infested. We doubt not that the fleas in squirrel burrows often harbor these mites under natural conditions.

Nathan Banks identified this mite as a member of the *Tyroglyphidae*, a new species of *Histiostoma*, to be described by him under the name of *H. tarsalis*. This acarologist states that most of the

known species have been taken in decaying matter; one, however, in England, was taken from a mole's nest. In his Revision of the *Tyroglyphidae* of the United States (Bulletin of the Department of Agriculture, Technical Series 13) one species of the genus *Histiostoma*, *H. brevipes Banks*, is recorded as occurring on the larva of the locust borer, *Cyllene robiniae*. The hypopial stage of another of this genus (*H. muscarum*) is recorded by the same author as being attached to house flies. (A Treatise on the Acarina, or Mites. Proc. U. S. Nat. Mus., vol. 28, No. 1382, p. 82.)

For the benefit of the reader we may give here the transformations through which these *Tyroglyphids* pass. This outline we abstract from the work of Banks:

The young, which hatch from eggs, are 6-legged, obtaining 2 more legs at the initial moult. This is the octopod nymph, which may often pass through what is called a hypopus. The body of the latter is hard and chitinous; there is no mouth orifice and there are no distinct mouth parts. By means of sucking disks the hypopus attaches itself to an insect or other creature and is transported to some other locality, where it may find a suitable breeding place. The hypopus is thus a stage in the life of the mite for the purpose of migration. This molts into an octopod nymph, which will feed and develop into an adult mite. The technical description of our new mite we leave to Nathan Banks. A general description, however, may assist us in the present discussion.

The hypopial stage of the mite under discussion is waxy-white in color, nearly translucent, and fairly covered with long moist filamentous bristles, which project from the body and the slender tarsi. In form it bears a striking resemblance to a scale insect. The tarsi, which are unique in this species of mite, are unusually long and delicate. The hind pairs are held nearly horizontal from the body and the anterior ones are extended above the head almost vertically.

The movement of the hypopus is very deliberate and painstaking, and when it is once fastened by the sucking disks to the host it is extremely difficult to dislodge it. The size of these creatures varies but slightly. The average dimensions of 10 specimens were 0.24 mm. long, by 0.14 mm. wide, by 0.06 mm. thick.

The adult mite, which develops in 4 to 5 weeks from the larval form, is an extremely active *Tyroglyphid*, differing markedly from the younger stage. It has 8 well-formed legs, and the mouth parts, in contrast to the hypopus, are powerful and evidently built for piercing. In color the adult is a light yellow with slightly darker legs and proboscis. The average size, taken from the measurements of 10 specimens, was 0.40 mm. by 0.25 mm.

An attempt was made to breed the new mite. For this purpose a flea infested with the mites was placed with 50 noninfested fleas of the same species (*C. fasciatus*) on a brown rat in a cage trap, inclosed in a breeding box of sawdust.

In a few weeks the bedding of the nest was examined and found swarming with minute forms. These tiny creatures bred in such overwhelming numbers that the breeding cages were soon overrun with myriads of the young mites. Particles of food, which dropped to the breeding nests from the wire cages, were literally covered and alive with the *Tyroglyphids*. It was seen, in a short time, that the invaders formed an impediment in the development of the fleas. We found that a large number of the larvæ of the rat fleas had been developed.

These were examined alive microscopically and many adult fleas were likewise inspected. The fleas were observed to be generally infested with the tiny mites, which were found clinging to the spines of the legs and hairs of the body segments. One was seen securely attached to the base of the antennæ. In this breeding cage the greatest number found on one flea was 10, the average number of mites on 200 fleas examined was 3. The flea larvæ were more extensively infested than the adults, the great majority being almost covered. One larva was selected and the mites were counted while the host was under the influence of ether. There were 26 mites, covering the segments of the body and thorax.

These mites have been seen by us on the adult flea (*C. acutus*, *C. fasciatus*, and *L. cheopis*) in various situations. They have been found on all of the body segments, as well as on the legs, especially the posterior pair. One specimen was found in the antennal groove of a male *C. fasciatus*. The antennæ of the flea were projecting, exposing the ear-like groove in which the hypopus was lodged.

The sucking disks of these mites are extremely tenacious. When the fleas are killed by an anæsthetic, the mites do not lose their hold, though apparently stupefied. They are forced to relinquish their perch only when their hosts are put through the process of clearing and dehydrating.

As far as the flea host is concerned, the mites are not a serious impediment, unless they accumulate in numbers sufficient to obstruct the spiracles. When but a few of the parasites are present, the infested flea appears to be quite unhampered by the addition of the hypopus, which moves clumsily from segment to segment until it forms an attachment on the leathery shell of its host. Under these circumstances the normal activities and length of life do not seem to be influenced by the invading mite.

The following table gives the impression that the fleas slightly infested live as long, under the same conditions, as fleas free of mites:

Day.	Fleas with mites.	Fleas used as a control (free from mites).
First	22 fleas used	17 fleas used.
Second	19 fleas alive	15 fleas alive.
Third	14 fleas alive	
Fourth	12 fleas alive	11 fleas alive.
Sixth		5 fleas alive.
Seventh		3 fleas alive.
Eighth	3 fleas alive	2 fleas alive.
Tenth	1 flea alive	All dead.

These fleas (*C. acutus*), including the noninfested controls, were removed at the same hour from a squirrel kept in the laboratory to serve as a host for the squirrel fleas. In testing the longevity, the insects were segregated into vials and kept in the dark without food. When the infested fleas died, they were examined microscopically and the extent of the infestation was noted. On the 22 fleas under observation the mites were found to average 3, ranging from 1 to 11 per flea.

Although we have taken adult mites of the *Histiostoma tarsalis* from the fleas, we are not prepared to state that the mite is a true parasite, since we have never seen it in the act of feeding. Extreme

infestation proving fatal often occurs however; the best example of this, which has come to our notice, was seen in a specimen of the squirrel flea, *Ceratophyllus acutus*, found in the breeding nest in a helpless condition, unable to jump. At first glance the flea seemed to be sprinkled with a coat of grayish dust particles. These on close inspection proved to be living forms. When examined microscopically, the identity of the flea seemed to be quite lost in a covering of *Tyroglyphid* parasites, which took full possession of every available space. Every segment harbored rows of them; the legs were clothed with them; and the head and rostrum, even the eyes, were covered with the infesting mites. It was apparent that, aside from the additional weight the flea supported, it was rendered helpless through the obstruction of the tracheal system, the abdominal spiracles of which at least were covered by the barnacle-like forms. The flea selected for this study died in 36 hours after removal from the squirrel nest. While under observation, it did not attempt to walk or jump, but lay helpless on its side, struggling occasionally in an effort to free itself from its unwelcome burden.

It was found by actual count that the host in this instance harbored 98 of the hypopial mites. These at the time of death of the *Pulicid* were almost synchronously aroused to action. In bestirring themselves from their inactive condition one would imagine that a state of demoralization had seized them, for they were seen to pry free the sucking disks, loose their perch, and move away from the dead host. When observed through the lens the mites were found to be in various stages of molting; the majority of them were found to be partially free from the scale-like crust of the integument, dragging the cast-off skin by the caudal portion. When the molted skin was examined, it was seen that besides the other appendages, the sucking disks were molted in their entirety. It was also noticed that the hind legs and mouth parts, which heretofore were mere vestiges, were considerably developed. The bristles on the tarsi were shortened in the molt; the bristles on the last tarsi which, prior to the change were longer than the body, appeared now much shortened. In general, the color of the cuticle was changed to a light brown.

The most significant change in the molting process appears to be the correlation of the shedding of the sucking disks with the change of the hypopus to an octopod nymph. It may be stated here that it has occurred to us that the peculiar hypopial stage spent on the body of the flea may be explained in that an attachment is formed for a very active insect, because it is necessary for the mite to get rid of the hard shell of the body before its full development can be attained. Furthermore, we have observed in the study of these *Tyroglyphids* that although other insects like the flies and beetles are present in various stages in the bedding of the breeding cages, the mite appears to strongly favor the fleas and their larvæ.

RÔLE OF A BEETLE IN THE DESTRUCTION OF FLEAS.

We have now to consider another enemy of the flea, inimical to its life in a more direct manner. Live squirrels which were trapped in San Mateo County, when received at the plague laboratory were accompanied in several instances by a species of *Staphylinus* beetle. Several of these beetles were collected with the fleas at the time the

squirrels were combed of parasites. It was noticed in a short time that when the beetles were placed in the vials with fleas the latter disappeared very rapidly. The vials were more closely observed when it was obvious that the beetles were predatory to a striking degree.

The beetle was observed to run aimlessly in an excited manner toward a group of the squirrel fleas, and when a body's length from the nearest flea was seen to rise on the hind legs and with a darting movement pounce on the quarry; then with a snap of the mandibles tear the flea in two. The body of a flea would then be torn to bits, and the invader prepared in a moment to seize the next victim. The movement of springing was peculiarly snake-like, always accompanied by a quick dart of the head. The beetle at each attack would tear and devour a flea until presumably satiated, and then continue to snap at each flea as it appeared in its way, leaving a trail of mangled and dismembered parasites.

In this fashion 5 beetles were observed to render helpless 97 adult fleas in a period of less than five minutes. A single beetle was starved for one day, then placed in a vial with 20 fleas, and permitted to play havoc with the unresisting parasites. In one minute and forty seconds all of the fleas were rendered helpless, either devoured entirely or fatally mangled.

Ten of the *Staphylinus* were retained for breeding purposes. It was found that a diet exclusively of hard-shelled *Pulicids* was not the most favorable for sustaining life, for on the fourth day the fleas no longer appealed to them as an article of diet, and the beetles did not survive the artificial environments presented. Although other insects were found in the material from the squirrel nest, the adult fleas were the only ones selected for attack; as far as we could determine, no instance was observed where the flea larvæ were molested. The rat flea (*Ceratophyllus fasciatus*) was subject to destruction in substantially the same degree as the squirrel flea (*C. acutus*).

UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

PLAGUE-PREVENTION WORK.

Infected Ground Squirrels.

A second infected ground squirrel was found March 4, 1910, in Oakland Township.

Passed Assistant Surgeon McCoy reports:

Summary of examinations at the plague laboratories at San Francisco and Oakland, Cal.

Week ended March 12. Rodents examined as follows: *Mus norvegicus*, 1,832; *Mus rattus*, 115; *Mus alexandrinus*, 73; *Mus musculus*, 514; ground squirrels, 2,843; gophers, 95; rabbits, 40; weasels, 4; total, 5,516. One infected squirrel was found in Alameda County.

SAN FRANCISCO, CAL.

Last case of human plague sickened January 30, 1908. Last case of rodent plague trapped October 23, 1908. Total number of rats found infected to date, 398.

Week ended March 12, 1910. Premises inspected, 1,361. Houses destroyed, 8. Nuisances abated, 199. Poisons placed, 6,010. Rats trapped, 1,920. Rats found dead, 25. Gophers trapped, 10. Squirrels trapped, 2. Rats identified, 1,945, as follows: *Mus norvegicus*, 1,374; *Mus rattus*, 110; *Mus musculus*, 392; *Mus alexandrinus*, 69. Examined bacteriologically 1,565 rats, 10 gophers, and 2 squirrels. No plague infection found.

OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last case of rodent plague trapped December 1, 1908.

Week ended March 12, 1910. Rats found dead, 15. Rats trapped, 574. Rats identified, 589, as follows: *Mus norvegicus*, 458; *Mus rattus*, 5; *Mus musculus*, 122; *Mus alexandrinus*, 4. Rats examined bacteriologically, 449.

ALAMEDA COUNTY, CAL. (Exclusive of Oakland).

Last case of human plague sickened 2 miles southwest of Sunol September 26, 1909. Last plague-infected rodent found March 4, 1910. To the present time 66 ground squirrels and 1 wood rat have been found infected.

Week ended March 12, 1910. Ranches inspected, 14. Ground squirrels shot, 229. Ground squirrels found dead, 1. Gophers trapped, 95. Acres covered with poison, 194. Examined bacteriologically, 300 squirrels and 95 gophers. One plague-infected squirrel was found.

The plague-infected ground squirrel was found in Oakland Township.

FRESNO COUNTY, CAL.

There is no record of human or rodent plague in Fresno County.

Week ended March 12. Ranches inspected, 30. Ground squirrels shot, 581. Ground squirrels examined bacteriologically, 575. No plague-infected squirrels found.

MADERA COUNTY, CAL.

There is no record of human or rodent plague in Madera County.

Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 329. Ground squirrels examined bacteriologically, 325. No plague-infected squirrels found.

MERCED COUNTY, CAL.

There is no record of human or rodent plague in Merced County.

Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 251. Rabbits shot, 28. Examined bacteriologically, 248 squirrels and 28 rabbits. No plague infection found.

MONTEREY COUNTY, CAL.

There is no record of human or rodent plague in Monterey County.

Week ended March 12. Ranches inspected, 31. Ground squirrels shot, 420. Ground squirrels examined bacteriologically, 414. No plague infection found.

SAN LUIS OBISPO COUNTY, CAL.

There is no record of human plague in San Luis Obispo County. A plague-infected rodent was found January 29, 1910.

Week ended March 12. Ranches inspected, 23. Ground squirrels shot, 207. Ground squirrels examined bacteriologically, 207. No plague-infected squirrels found.

SAN MATEO COUNTY, CAL.

There is no record of human or rodent plague in San Mateo County.

Week ended March 12. Ranches inspected, 2. Ground squirrels shot, 78. Ground squirrels examined bacteriologically, 78. No plague-infected squirrels found.

SANTA BARBARA COUNTY, CAL.

There is no record of human or rodent plague in Santa Barbara County.

Week ended March 12. Ranches inspected, 28. Ground squirrels shot, 228. Gophers trapped, 20. Examined bacteriologically, 221 squirrels and 20 gophers. No plague infection found.

SANTA CLARA COUNTY, CAL.

There is no record of human plague in Santa Clara County. The last plague-infected rodent was found November 3, 1909. Total number of ground squirrels found infected to date, 9.

Week ended March 12. Ranches inspected, 8. Ground squirrels shot, 139; found dead, 1. Rabbits shot, 4. Rats trapped, 14. Examined bacteriologically, 136 ground squirrels, 4 rabbits, 14 rats. No plague infection found.

TULARE COUNTY, CAL.

There is no record of human or rodent plague in Tulare County.

Week ended March 12. Ranches inspected, 141. Ground squirrels shot, 419. Rabbits shot, 2. Examined bacteriologically, 414 squirrels and 2 rabbits. No plague infection found.

VENTURA COUNTY, CAL.

There is no record of human or rodent plague in Ventura County.

Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 171. Ground squirrels examined bacteriologically, 165. No plague-infected squirrels found.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended April 1, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile	Mar. 13-19	1		
Montgomery	Mar. 13-19	9	1	
California:				
Sacramento	Feb. 1-28	4		
San Francisco	Mar. 6-12	1		
Florida:				
Duval County	Mar. 13-19	1		
Louisiana:				
New Orleans	Mar. 13-19	10		
Mississippi:				
Woodville	Mar. 13-19	2		
Tennessee:				
Chattanooga	Mar. 13-19	6		
Memphis	Mar. 13-19	5		
Nashville	Mar. 13-19	3		
Texas:				
Galveston	Mar. 13-19	2	1	
Taylor	Mar. 13-19	1		
Virginia:				
Lynchburg	Mar. 13-19	3		

Reports Received from January 1 to March 25, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham	Jan. 9-Feb. 12	19		
Mobile	Jan. 16-Mar. 12	8		
Montgomery	Dec. 19-Mar. 12	400		
Total for State		427		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Arkansas:				
Argenta	Jan. 22–Feb. 12	11		
Little Rock	Jan. 1–Mar. 12	92		
Lonoke	Jan. 6–20	2		
Total for State		105		
California:				
Berkeley	Dec. 26–Jan. 1	1		
Los Angeles	Jan. 12–Feb. 12	4		
Oakland	Dec. 26–Jan. 1	1		
Sacramento County	Jan. 1–31		1	
Sacramento	Dec. 12–Jan. 31	50		
San Francisco	Dec. 19–Mar. 5	18		
Total for State		74	1	
Colorado:				
Bent County	Feb. 1–28	10		
Boulder County—				
Boulder	Dec. 19–25	1		
Chaffee County	Jan. 1–31	6		
Conejos County	Jan. 1–Feb. 28	29		
Denver County	Jan. 1–Feb. 28	18		
Fremont County	Feb. 1–28	14		
Garfield County	Jan. 1–31	1		
Huerfano County	Jan. 1–Feb. 28	12		
Jefferson County	Feb. 1–28	1		
La Plata County	Feb. 1–28	4		
Larimer County	Jan. 1–31	4		
Las Animas County	Jan. 1–Feb. 28	14		
Logan County	Jan. 1–Feb. 28	17		
Mesa County	Jan. 1–31	4		
Fruita district	Dec. 26–Jan. 1	3		
Montrose County	Jan. 1–Feb. 28	19		
Morgan County	Jan. 1–Feb. 28	16		
Otero County	Jan. 1–31	1		
Ouray County	Jan. 1–Feb. 28	13		
Pitkin County	Feb. 1–28	5		
Pueblo County	Feb. 1–28	2		
Rio Grande County	Feb. 1–28	1		
San Miguel County	Jan. 1–31	1		
Summit County	Jan. 1–31	1		
Weld County	Jan. 1–Feb. 28	21		
Total for State		218		
District of Columbia	Dec. 19–Mar. 5	21		
Total for District		21		
Florida:				
Alachua County	Jan. 1–Feb. 26	3		
Columbia County	Feb. 15–19	2		
Duval County	Jan. 1–31	1		
Jacksonville	Jan. 30–Mar. 12	4		
Escambia County	Feb. 6–Mar. 5	31		
Pensacola	Feb. 20–26	1		
Gadsden County	Jan. 1–31	2		
Hillsboro County	Jan. 1–31	1		
Leon County	Feb. 20–26	1		
Liberty County	Jan. 1–31	1		
Volusia County	Mar. 6–12	1		
Walton County	Jan. 1–31	3		
Total for State		51		
Georgia:				
Macon	Jan. 1–31	51		
Total for State		51		
Illinois:				
Alexander County	Jan. 1–31	6		
Cass County	Feb. 1–28	1		
Coles County	Jan. 1–31	4		
Cook County—				
Chicago	Dec. 19–Feb. 28	3		
Dupage County	Feb. 1–28			Present.
Edwards County	Jan. 1–Feb. 28	29		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Effingham County	Jan. 1-Feb. 28	82		
Fayette County	Jan. 1-Feb. 28	2		
Franklin County	Jan. 1-31	6		
Gallatin County	Feb. 1-28	2		
Iroquois County	Feb. 1-28	1		
Jackson County	Jan. 1-Feb. 28	3		
Jasper County	Feb. 1-28			Present.
Kane County	Jan. 1-31	1		
Livingston County	Feb. 1-28	3		
Macon County	Jan. 1-31	1		
McLean County	Jan. 1-31	1		
Madison County	Feb. 1-28	1		
Marion County	Feb. 1-28	2		
Montgomery County	Jan. 1-Feb. 28	10		
Pike County	Feb. 1-28	2		
Pulaski County	Jan. 1-31	2		
Sangamon County	Jan. 1-31	4		Do.
Shelby County	Jan. 1-Feb. 28	10		
Wabash County	Jan. 1-31			Do.
Wayne County	Jan. 1-31	5		
Williamson County	Jan. 1-Feb. 28	23		
Total for State		204		
Indiana:				
Adams County	Oct. 1-31	4		
Allen County	Oct. 1-Jan. 31	180	1	
Carroll County	Nov. 1-Jan. 21	2		
Clark County	Dec. 1-Jan. 31	20		
Clinton County	Dec. 1-Jan. 31	28		
Crawford County	Jan. 1-31	1		
Daviess County	Nov. 1-Jan. 31	28		
Decatur County	Jan. 1-31	3		
Dekalb County	Dec. 1-Jan. 31	3		
Delaware County	Oct. 1-Nov. 30	20		
Fountain County	Jan. 1-31	1		
Fulton County	Jan. 1-31	4		
Grant County	Oct. 1-Jan. 31	35		
Greene County	Oct. 1-31	6		
Hamilton County	Jan. 1-31	4		
Henry County	Jan. 1-31	2		
Huntington County	Jan. 1-31	1		
Jefferson County	Nov. 1-30	1		
Jennings County	Jan. 1-31	6		
Knox County	Oct. 1-31	7		
Laporte County	Dec. 1-31	1		
Madison County	Jan. 1-31	3		
Marion County	Dec. 1-Jan. 31	3		
Marshall County	Oct. 1-Jan. 31	80		
Martin County	Jan. 1-31	1		
Miami County	Jan. 1-31	3		
Montgomery County	Jan. 1-31	2		
Noble County	Nov. 1-Jan. 31	2		
Randolph County	Oct. 1-31	1		
St. Joseph County	Oct. 1-Jan. 31	21		
Shelby County	Dec. 1-Jan. 31	33		
Steuben County	Nov. 1-30	3		
Tippecanoe County	Dec. 1-Jan. 31	3		
Vanderburg County	Oct. 1-31	8		
Warren County	Nov. 1-30	1		
Washington County	Jan. 1-31	1		
Wayne County	Nov. 1-Jan. 31	1		
Total for State		523	1	
Iowa, general	Jan. 1-31	19		
Buchanan County	Feb. 1-28	8		
Buena Vista County	Jan. 1-31	1		
Calhoun County	Jan. 1-31	10		
Cass County	Jan. 1-31	1		
Cedar County	Jan. 1-31	3		
Cherokee County	Jan. 1-31	24		
Clayton County	Jan. 1-31	1		
Dallas County	Jan. 1-31	1		
Delaware County	Feb. 1-28	4		
Dubuque County	Jan. 1-Feb. 28	40		
Floyd County	Feb. 1-28	2		
Grundy County	Feb. 1-28	4		
Jones County	Jan. 1-Feb. 28	3		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Iowa—Continued.				
Linn County	Jan. 1-31	7		
Cedar Rapids	Dec. 1-31	7		
Madison County	Jan. 1-31	1		
Marion County	Jan. 1-31	2		
Marshall County	Jan. 1-Feb. 28	5		
Mitchell County	Feb. 1-28	1		
Monroe County	Jan. 1-Feb. 28	3		
Polk County	Jan. 1-Feb. 28	41		
Pottawattamie County	Jan. 1-31	1		
Poweshiek County	Jan. 1-31	6		
Scott County	Feb. 1-28	2		
Sioux County	Jan. 1-Feb. 28	17		
Story County	Feb. 1-28	17		
Winnebago County	Feb. 1-28	5		
Woodbury County	Feb. 1-28	1		
Sioux City	Dec. 1-31	2		
Wright County	Feb. 1-28	1		
Total for State		240		
Kansas:				
Allen County	Jan. 1-31	1		
Barton County	Jan. 1-31	1		
Bourbon County	Jan. 1-31	3		
Cherokee County	Jan. 1-31	8		
Clay County	Nov. 1-30	1		
Cloud County	Nov. 1-30	1		
Cowley County	Nov. 1-30	3		
Crawford County	Dec. 1-Jan. 31	4		
Pittsburg	Jan. 1-31	1		
Decatur County	Nov. 1-Jan. 31	21		
Dickinson County	Jan. 1-31	4		
Douglas County	Dec. 1-31	1		
Ellsworth County	Jan. 1-31	14		
Finney County	Jan. 1-31	1		
Ford County	Jan. 1-31	6		
Gove County	Dec. 1-31	3		
Graham County	Nov. 1-Jan. 31	40		
Gray County	Jan. 1-31	18		
Hamilton County	Jan. 1-31	2		
Jackson County	Dec. 1-31	5		
Jewell County	Nov. 1-Jan. 31	44		
Kearny County	Jan. 1-31	1		
Kiowa County	Jan. 1-31	2		
Labette County	Jan. 1-31	5		
Lane County	Nov. 1-30	1		
Leavenworth County	Dec. 1-31	1		
Logan County	Jan. 1-31	2		
Lyon County	Dec. 1-31	1		
McPherson County	Dec. 1-Jan. 31	3		
Marshall County	Dec. 1-31	20		
Miami County	Jan. 1-31	3		
Montgomery County	Nov. 1-Jan. 31	109		
Coffeyville	Jan. 1-31	11		
Nemeha County	Jan. 1-31	1		
Neosho County	Jan. 1-31	1		
Ness County	Dec. 1-Jan. 31	8		
Norton County	Nov. 1-Jan. 31	38		
Osage County	Jan. 1-31	11		
Phillips County	Jan. 1-31	3		
Pottawatomie County	Nov. 1-Dec. 31	6		
Rawlins County	Jan. 1-31	5		
Reno County	Nov. 1-Jan. 31	123		
Rice County	Jan. 1-31	1		
Riley County	Jan. 1-31	17		
Rush County	Jan. 1-31	5		
Russell County	Jan. 1-31	1		
Saline County	Dec. 1-31	1		
Scott County	Nov. 1-Dec. 31	11		
Sedgwick County	Dec. 1-31	2	1	
Wichita	Jan. 1-31	1		
Shawnee County	Dec. 1-31	12		
Topeka	Nov. 1-Jan. 31	9		
Sheridan County	Nov. 1-Jan. 31	8		
Smith County	Jan. 1-31	2		
Sumner County	Nov. 1-Jan. 31	11		
Thomas County	Jan. 1-31	1		
Wabaunsee County	Nov. 1-30	3		
Wilson County	Nov. 1-Jan. 31	3		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Woodson County	Jan. 1-31	25		
Wyandotte County	Dec. 1-Jan. 31	91		
Kansas City	Jan. 1-31	39		
Total for State		780	1	
Kentucky:				
Hartford	Dec. 12-18	2		
Lexington	Dec. 12-Jan. 29	4		
Paducah	Jan. 5-11	1		
Total for State		7		
Louisiana:				
Caddo Parish—				
Shreveport	Jan. 23-Feb. 28	5	2	
Iberia Parish	Feb. 1-28	1		
Natchitoches Parish	Feb. 1-28	6		
Orleans Parish—				
New Orleans	Dec. 26-Mar. 12	76		
Morehouse Parish	Feb. 1-28	2		
St. John Parish	Feb. 1-28	6		
Tensas Parish	Feb. 1-28	13		
Total for State		109	2	
Maryland:				
Baltimore	Dec. 26-Jan. 1	1		
Dorchester County	Dec. 3-31	4		
Garrett County	Jan. 8-31	1		
Total for State		6		
Massachusetts:				
Bristol County	Feb. 1-28	6		
Essex County	Jan. 1-31	1		
Middlesex County	Jan. 1-Feb. 28	76		
Lynn County	Jan. 1-31	4		
Plymouth County	Feb. 1-28	4		
Suffolk County	Jan. 1-Feb. 28	3		
Worcester County	Jan. 1-Feb. 28	22		
Total for State		116		
Michigan:				
Alcona County	Nov. 1-Jan. 31	26		
Antrim County	Nov. 1-Feb. 28	33		
Arenac County	Nov. 1-Feb. 28	136		
Bay County	Nov. 1-Feb. 28	83		
Berrien County	Jan. 1-Feb. 28	21		
Calhoun County	Feb. 1-28	1		
Cass County	Feb. 1-28	1		
Clare County	Feb. 1-28	1		
Delta County	Dec. 1-31	1		
Eaton County	Feb. 1-28	1		
Emmet County	Nov. 1-Feb. 28	4		
Genesee County	Nov. 1-Feb. 28	264		
Gladwin County	Nov. 1-Jan. 31	8		
Gratiot County	Nov. 1-30	1		
Houghton County	Nov. 1-Feb. 28	54		
Huron County	Feb. 1-28	6		
Ingham County	Dec. 1-Feb. 28	11		
Ionia County	Nov. 1-Feb. 28	40		
Iosco County	Dec. 1-Feb. 28	3	1	
Kent County	Dec. 1-Feb. 28	5		
Keweenaw County	Jan. 1-Feb. 28	3		
Lapeer County	Nov. 1-Feb. 28	7		
Livingston County	Nov. 1-Jan. 31	18		
Manistee County	Feb. 1-28	8		
Marquette County	Nov. 1-30	1		
Mason County	Nov. 1-30	1		
Mecosta County	Jan. 1-Feb. 28	11		
Midland County	Dec. 1-Feb. 28	11		
Missaukee County	Jan. 1-Feb. 28	33		
Montcalm County	Nov. 1-Feb. 28	5		
Montmorency County	Dec. 1-Feb. 28	36		
Oakland County	Jan. 1-31	1		
Oceana County	Jan. 1-31	1		
Ogemaw County	Jan. 1-Feb. 28	6		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Ontonagon County	Nov. 1–Feb. 28	12		
Osceola County	Dec. 1–Feb. 28	14		
Oscoda County	Jan. 1–Feb. 28	7		
Otsego County	Dec. 1–31	1		
Presque Isle County	Dec. 1–Jan. 31	2		
Roscommon County	Jan. 1–31	6		
Saginaw County	Dec. 1–Feb. 28	53		
St. Clair County	Jan. 1–Feb. 28	16		
Sanilac County	Nov. 1–Feb. 28	3		
Shiawassee County	Dec. 1–Feb. 28	8		
Tuscola County	Feb. 1–28	3		
Wayne County	Dec. 1–Feb. 28	8		
Total for State		975	1	
Minnesota:				
Anoka County	Feb. 1–28	5		
Becker County	Jan. 4–10	3		
Beltrami County	Dec. 21–Feb. 14	3		
Benton County	Dec. 14–20	7		
Blue Earth County	Dec. 21–27	1		
Carver County	Dec. 7–Jan. 3	4		
Chippewa County	Jan. 11–17	1		
Chisago County	Feb. 15–21	2		
Cook County	Jan. 25–31	2		
Dakota County	Feb. 1–28	4		
Dodge County	Jan. 25–31	1		
Faribault County	Feb. 8–14	1		
Freeborn County	Jan. 18–Feb. 28	18		
Goodhue County	Dec. 28–Jan. 31	1		
Hennepin County	Dec. 28–Feb. 28	38		
Houston County	Feb. 8–14	4		
Isanti County	Feb. 21–28	1		
Itasca County	Dec. 14–Feb. 28	2		
Kandiyohi County	Dec. 7–13	1		
Koochiching County	Feb. 1–7	1		
Lake County	Jan. 18–Feb. 28	8		
Mower County	Dec. 28–Feb. 28	26		
Nicollet County	Feb. 15–21	1		
Nobles County	Jan. 18–25	1		
Norman County	Jan. 18–25	2		
Olmsted County	Feb. 8–14	1		
Ottertail County	Dec. 21–Feb. 28	24		
Pine County	Feb. 22–28	1		
Polk County	Dec. 7–13	1		
Ramsey County	Jan. 11–Feb. 28	6		
Red Lake County	Dec. 7–Feb. 14	4		
Renville County	Dec. 7–13	1		
Rice County	Jan. 11–17	1		
Rock County	Dec. 7–Feb. 21	22		
Roseau County	Dec. 7–Feb. 28	32		
St. Louis County	Dec. 7–Feb. 28	21		
Sherburne County	Jan. 11–17	1		
Sibley County	Dec. 28–Feb. 28	9		
Stearns County	Feb. 1–21	4		
Swift County	Feb. 8–21	3		
Todd County	Dec. 28–Jan. 31	1		
Wabasha County	Dec. 13–Feb. 21	29		
Wadena County	Feb. 1–21	15		
Wilkin County	Feb. 15–21	1		
Watonwan County	Dec. 28–Jan. 31	1		
Wright County	Dec. 7–Feb. 28	41		
Yellow Medicine County	Feb. 22–28	9		
Total for State		366		
Mississippi:				
Biloxi	Jan. 2–Feb. 3	5		
Gulfport	Jan. 26–Mar. 9	9		
Holly Springs	Jan. 2–29	6		
Marshall County	Jan. 30–Mar. 5	4	1	
Natchez	Dec. 26–Feb. 26	90	2	
Claiborne County—				
Port Gibson	Dec. 19–25	1		
Woodville	Feb. 27–Mar. 5	25	1	
Total for State		140	4	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Missouri:				
Andrew County	Jan. 23-Feb. 26	5		
Joplin	Jan. 16-22	1		
Kansas City	Jan. 2-Feb. 19	16	1	
St. Joseph	Jan. 2-Feb. 5	7		
St. Louis	Dec. 26-Mar. 12	23		
Springfield	Jan. 1-31	4		
Total for State		56	1	
Montana:				
Beaverhead County	Dec. 1-Feb. 28	5		
Broadwater County	Feb. 1-28	2		
Carbon County	Jan. 1-31	1		
Chouteau County	Jan. 1-31	6		
Custer County	Feb. 1-28	1		
Dawson County	Nov. 1-Jan. 31	6		
Deerlodge County	Feb. 1-28	1		
Flathead County	Oct. 1-Nov. 30	6		
Gallatin County	Dec. 1-Feb. 28	3		
Jefferson County	Nov. 1-30	1		
Lewis and Clark County	Oct. 1-Feb. 28	31		
Madison County	Jan. 1-Feb. 28	2		
Meagher County	Feb. 1-28	2		
Missoula County	Oct. 1-Feb. 28	73		
Park County	Nov. 1-Jan. 31	14		
Powell County	Nov. 1-Feb. 28	2		
Ravalli County	Nov. 1-Feb. 28	5		
Sanders County	Jan. 1-Feb. 28	4		
Silverbow County	Oct. 1-Feb. 28	190		
Butte	Dec. 19-31	14		
Yellowstone County	Jan. 1-31	2		
Total for State		371		
Nebraska:				
Lincoln	Jan. 1-Feb. 28	5		
South Omaha	Dec. 5-11	3		
Total for State		8		
New Hampshire (entire State)	Jan. 1-Feb. 28	7		
New Jersey:				
Bergen County	Feb. 1-28	1		
Passaic County	Jan. 1-31	1		
Trenton	Jan. 30-Feb. 5	1		
Total for State		3		
New York (entire State)	Sept. 1-Nov. 30	33	1	
Cattaraugus County	Dec. 1-31	1		
Cayuga County	Dec. 1-31	1		
Erie County	Dec. 1-31	17		
Jefferson County	Dec. 1-31	1		
Lewis County	Dec. 1-Jan. 31	2		
Niagara County	Dec. 1-Jan. 31	40		
Oneida County	Dec. 1-Jan. 31	2		
St. Lawrence County	Jan. 1-31	9		
Ulster County	Jan. 1-31	2		
Westchester County	Jan. 1-31	1		
Total for State		109	1	
North Carolina:				
Alamance County	Jan. 1-Feb. 28	86		
Beaufort County	Jan. 1-Feb. 28	11		
Bertie County	Jan. 1-31	6		
Bladen County	Nov. 1-Jan. 31	21		
Burke County	Jan. 1-31	20		
Cabarrus County	Jan. 1-Feb. 28	15		
Caldwell County	Jan. 1-Feb. 28	31		
Carteret County	Jan. 1-Feb. 28	3		
Catawba County	Oct. 1-Feb. 28	62		
Chatham County	Jan. 1-31	2		
Chowan County	Oct. 1-Feb. 28	17		
Cleveland County	Oct. 1-Feb. 28	4		
Craven County	Nov. 1-Feb. 28	10		
Currituck County	Oct. 1-Feb. 28	5		
Davidson County	Oct. 1-Feb. 28	50		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Davie County	Jan. 1-Feb. 28	29		
Duplin County	Nov. 1-Feb. 28	24		
Durham County	Jan. 1-31	3		
Edgecombe County	Jan. 1-Feb. 28	24		
Forsyth County	Oct. 1-Feb. 28	101		
Franklin County	Oct. 1-Feb. 28	185		
Gaston County	Nov. 1-Feb. 28	26		
Greene County	Nov. 1-Feb. 28	50		
Guilford County	Nov. 1-Feb. 28	112		
Iredell County	Jan. 1-Feb. 28	5		
Johnston County	Nov. 1-Jan. 31	23		
Jones County	Oct. 1-Nov. 30	12		
Lee County	Feb. 1-28	3		
Lenoir County	Jan. 1-Feb. 28	37		
Lincoln County	Jan. 1-Feb. 28	8		
McDowell County	Nov. 1-Feb. 28	75		
Mecklenburg County	Nov. 1-Feb. 28	102	1	
Nash County	Jan. 1-Feb. 28	125		Nov. 1-30, many cases.
New Hanover County	Feb. 1-28	1		
Onslow County	Jan. 1-Feb. 28	7		
Orange County	Feb. 1-28	2		
Pamlico County	Feb. 1-28	40		Jan. 1-31, present.
Perquimans County	Jan. 1-31	4		
Pitt County	Jan. 1-Feb. 28	70		
Randolph County	Jan. 1-31	2		
Richmond County	Feb. 1-28	1		
Robeson County	Oct. 1-Feb. 28	19		
Rockingham County	Nov. 1-Feb. 28	50		
Rowan County	Nov. 1-Feb. 28	21		
Rutherford County	Nov. 1-Feb. 28	61		
Sampson County	Jan. 1-Feb. 28	3		
Stokes County	Jan. 1-Feb. 28	160		
Surry County	Oct. 1-Feb. 28	16		
Union County	Oct. 1-Feb. 28	66		
Wake County	Nov. 1-Feb. 28	61		
Washington County	Feb. 1-28	2		
Wayne County	Nov. 1-Feb. 28	28		
Wilkes County	Jan. 1-Feb. 28	39		
Wilson County	Nov. 1-Feb. 28	224		
Yadkin County	Oct. 1-Feb. 28	11		
Yancey County	Oct. 1-Feb. 28	35		
Total for State		2,210	1	
North Dakota:				
Billings County	Jan. 1-Feb. 28	11		
Bottineau County	Oct. 1-31	1		
Cass County	Dec. 1-31	1		
Grand Forks County	Jan. 1-Feb. 28	2		
McLean County	Dec. 1-Jan. 31	4		
Nelson County	Feb. 1-28	12		
Steele County	Feb. 1-28	6		
Williams County	Feb. 1-28	6		
Walsh County	Jan. 1-31	39		
Total for State		82		
Ohio:				
Allen County	Jan. 1-Feb. 28	26		
Adams County	Jan. 1-31	1		
Auglaize County	Feb. 1-28	8		
Belmont County	Jan. 1-Feb. 28	7		
Brown County	Jan. 1-Feb. 28	19		
Clermont County	Jan. 1-31	1		
Cuyahoga County— Cleveland	Dec. 19-26	1		
Darke County	Jan. 1-31	3		
Franklin County	Jan. 1-Feb. 28	7		
Hamilton County	Jan. 1-Feb. 28	2		
Jackson County	Jan. 1-Feb. 28	36		
Knox County	Feb. 1-28	1		
Miami County	Jan. 1-Feb. 28	2		
Montgomery County	Jan. 1-Feb. 28	3		
Portage County	Feb. 1-28	10		
Ross County	Jan. 1-31	16		
Scioto County	Feb. 1-28	3		
Seneca County	Feb. 1-28	3		
Shelby County	Jan. 1-Feb. 28	7		
Van Wert County	Jan. 1-Feb. 28	27		
Wayne County	Jan. 1-31	1		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Ohio—Continued.				
Williams County—				
Stryker	Dec. 19-25	1		
Wyandot County	Feb. 1-28	4		
Total for State		189		
Oklahoma:				
Beckham County	Nov. 1-30	1		
Blaine County	Dec. 1-31	7		
Coal County	Aug. 1-Sept. 30	10		
Comanche County	Nov. 1-30	1		
Creek County	Oct. 1-Nov. 30	3		
Garfield County	Nov. 1-30	1		
Grant County	Aug. 1-31	1		
Harmon County	Aug. 1-31	2		
Hughes County	Aug. 1-31	3		
Jackson County	Aug. 1-Nov. 30	19		
Kingfisher County	Oct. 1-31	2		
Le Flore County	Oct. 1-31	1		
Lincoln County	Aug. 1-31	3		
McIntosh County	Sept. 1-30	2		
Marshall County	Oct. 1-31	1		
Muskogee County	Oct. 1-31	1		
Okfuskee County	Oct. 1-31	1		
Oklahoma County	Aug., Sept., and Nov.	14	1	
Osage County	Sept. 1-Oct. 31	9		
Pawnee County	Aug. 1-31	1		
Pottawatomie County	Sept. 1-Nov. 30	41		
Pushmataha County	Sept. 1-30	1		
Seminole County	Oct. 1-Nov. 30	7		
Sequoyah County	Aug. 1-Sept. 30	2		
Tulsa County	Nov. 1-30	3		
Washington County	Nov. 1-30	1		
Woodward County	Nov. 1-30	1		
Total for State		139	1	
Oregon (entire State)	Sept. 1-Dec. 31	89		
Portland	Nov. 1-30	2		
Total for State		91		
Pennsylvania (entire State)	Dec. 1-Feb. 28	57		
South Carolina:				
Clover	Jan. 23-29	3		
Total for State		3		
Tennessee:				
Davidson County—				
Nashville	Feb. 20-26	1		
Dekalb County	Dec. 12-Jan. 1	9		
Hamilton County—				
Chattanooga	Dec. 26-Mar. 12	51		
Knox County—				
Knoxville	Jan. 2-Mar. 5	44		
Shelby County	Nov. 1-Jan. 31	28		
Memphis	Nov. 1-Mar. 12	161		
Washington County	Dec. 26-Feb. 5	11		
Total for State		305		
Texas:				
Amarillo	Jan. 16-22	16		
Atascosa County	Jan. 31-Feb. 19	6		
Denton County	Dec. 26-Feb. 27	106	15	
El Paso	Nov. 1-Jan. 22	5	1	
Fort Worth	Nov. 1-Feb. 28	52	4	
Galveston	Feb. 6-26	3		
Hale County	Jan. 9-15	7		
Normanna	Jan. 1-31	12	5	
Rockdale	Feb. 13-19	3		
San Antonio	Dec. 5-Feb. 12	16	1	
Taylor	Feb. 27-Mar. 5	1		
Waco	Jan. 1-Feb. 28	3		
Walnut Springs	Jan. 12-18	2		
Wills Point	Jan. 1-Feb. 28	5	2	
Total for State		237	28	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to March 25, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Utah:				
Boxelder County	Dec. 1–Jan. 31	46		
Cache County	Dec. 1–Jan. 31	21		
Carbon County	Dec. 1–Jan. 31	6		
Davis County	Dec. 1–Jan. 31	28		
Juab County	Jan. 1–31	16		
Piute County	Dec. 1–31	1		
Rich County	Jan. 1–31	1		
Salt Lake County	Dec. 1–Jan. 31	68		
Sanpete County	Dec. 1–Jan. 31	9		
Sevier County	Dec. 1–Jan. 31	3		
Summit County	Jan. 1–31	12		
Tooele County	Dec. 1–31	1		
Uintah County	Dec. 1–Jan. 31	21		
Utah County	Dec. 1–Jan. 31	69		
Wasatch County	Dec. 1–Jan. 31	7	1	
Weber County	Dec. 1–Jan. 31	28		
Total for State		337	1	
Virginia:				
Lynchburg	Jan. 30–Mar. 12	32	1	
Petersburg	Dec. 26–Jan. 26	2		
Portsmouth	Jan. 16–29	2		
Richmond	Dec. 1–31	1		
Total for State		37	1	
Washington:				
Kitsap County	Jan. 1–31	1		
Seattle	Jan. 2–22	6		
Spokane	Dec. 19–Jan. 29	22		
Tacoma	Jan. 2–31	2		
Wahkiakum County	Dec. 1–31	8		
Total for State		39		
West Virginia:				
Berkeley Springs	Dec. 27–Feb. 17	6		
Wheeling	Jan. 30–Feb. 5	1		
Total for State		7		
Wisconsin:				
Buffalo County	Feb. 1–28	3		
Chippewa County	Jan. 1–31	3		
Clark County	Jan. 1–Feb. 28	14		
Crawford County	Feb. 1–28	7		
Dane County	Feb. 1–28	1		
Douglas County	Jan. 1–Feb. 28	13		
Superior	Dec. 19–Jan. 1	6		
Grant County	Feb. 1–28	1		
Jefferson County	Jan. 1–Feb. 28	19		
Juneau County	Jan. 1–31	1		
La Crosse County	Jan. 1–Feb. 28	14		
La Crosse	Dec. 19–Jan. 1	2		
Langlade County	Jan. 1–Feb. 28	3		
Milwaukee County	Jan. 1–Feb. 28	19		
Milwaukee	Dec. 19–Jan. 1	2		
Price County	Feb. 1–28	1		
Walworth County	Feb. 1–28	1		
Winnebago County	Jan. 1–31	2		
Total for State		112		
Grand total for the United States		8,812	44	

MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.

[For smallpox see special tables.]

Cities.	Week ended—	Estimated population 1909.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa	Mar. 19	50,814	10											1	
Ashtabula, Ohio	do	16,648	8												
Baltimore, Md	do	576,023	215	204	28	12	2	33		14	4	44	2	15	2
Bath, Me	do	12,055								1					
Bayonne, N. J	do	49,894		1	1			2		2					
Beaver Falls, Pa	do	10,341	1												
Berkeley, Cal	Mar. 12	a 19,700	5		2	1		3		1		27			
Biddeford, Me	Mar. 19	17,676	8	1	1										
Binghamton, N. Y	Mar. 12	45,855	21							1		8			
Do	Mar. 19		19	2	1			1				7	1		
Boston, Mass	do	622,970	241	76	25	4		34	1	51	3	96	4	5	
Boulder, Colo	do		2					1							
Braddock, Pa	Mar. 12	21,000	5	2				1							
Do	Mar. 19		10					1		2		2			
Bridgeport, Conn	do	90,913	31	4	5			21	1	5	2			2	
Brockton, Mass	do	53,978	20	3	3			6				1			
Butte, Mont	do	49,892	15		5			6							
Cambridge, Mass	do	101,872	41	10	8			1		12		7			
Cambridge, Ohio	do	11,733	6									45			
Camden, N. J	do	89,305	31		2	2		3		5	1				
Carbondale, Pa	Mar. 21	15,698	4									1			
Charlotte, N. C	Mar. 19	35,101	7	1		1						3		1	
Chattanooga, Tenn	do	34,654		2											
Chelsea, Mass	do	39,862	13	3			1	1				3			
Chicago, Ill	do	2,224,491	750	106	92	9	4	135	8	92	11	333	5	74	6
Chicopee, Mass	do	20,010	8	1	1			3		3		4			
Cincinnati, Ohio	do	351,212	131	31	16	2		7		3		124	2	6	
Cleveland, Ohio	Mar. 18	506,938	177	35	20	1	1	19		8	1	225	4	9	1
Coffeyville, Kans	Mar. 19		4					3		1		8			
Columbus, Ga	do	17,893	10										1		
Columbus, Ohio	do	155,340	72	5	16			3		2		99		5	
Concord, N. H	Mar. 12	21,997	7									11			
Do	Mar. 19		9							1		2			
Covington, Ky	do	51,715	21		5	2								1	
Danville, Ill	do	27,387	11	2	2							46		1	
Detroit, Mich	do	384,855	196					25	1	15					
Duluth, Minn	Mar. 12	74,520	22	3		1		25	1	4		10			
Do	Mar. 19		28	2	1	1	1	14		6		10			
Dunkirk, N. Y	do	18,061	6					1				15			
Elizabeth, N. J	Mar. 12	67,470	18		2			10		2		13		7	
Do	Mar. 19		12					12		1		6			
Elmira, N. Y	do	35,765	15				1	1		2		3			
El Paso, Tex	do	22,911	26	6	6							50		3	1
Elyria, Ohio	Mar. 12	11,653	8			1				1				2	
Erie, Pa	Mar. 19	63,652	25	5	1	11		5		2		5			
Evansville, Ind	do	66,948	15		2	3	1	1		2		12			
Everett, Mass	do	32,931	13	2	2			2		1	1	2		4	
Fall River, Mass	do	106,481	41	6	3					1	1	1			
Fort Wayne, Ind	Mar. 12	54,180	12					2		1		114		2	
Do	Mar. 19		26	1	3			1		2		150	1	2	
Galesburg, Ill	do	21,615	15					2							
Galveston, Tex	do	36,964	4	2	2	1				1	1				
Grand Rapids, Mich	do	105,909	32	5	3	8		29	1	1		8		6	
Harrison, N. J	do	14,604	3					1		1					
Haverhill, Mass	do	38,354	24	6	1	1		4		1		9	1	2	
Homestead, Pa	Mar. 7	17,145	11		1			2	1			2		6	
Do	Mar. 14		6					2		1		1			
Hyde Park, Mass	Mar. 19	15,522	8	1	1	1		2				1			
Jacksonville, Fla	do	40,798	11		2	1									
Jersey City, N. J	Mar. 20	253,711	84	1	13		1	25	2	8	1	16			
Johnstown, Pa	Mar. 19	46,520	16					3		1		57			
Kansas City, Kans	do	85,742	31	1	3	2	1	3		6	1	59	1	1	
Kansas City, Mo	Mar. 5	191,685	118		14	17	5	17	4	8	2	288	5	1	
Kearny, N. J	Mar. 19	15,765	3	1				1				8		1	
Kingston, N. Y	do	26,110	12		2			3		1					
Knoxville, Tenn	do	37,758	16		2					1		1			
Lackawanna, N. Y	do							9	1	1		11	3		
La Crosse, Wis	do	29,224	7		1	1		1				4			

a Estimated population, 1906; no estimate for 1909.

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Estimated population 1909.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
La Fayette, Ind	Mar. 19	19,801	8		1			1				4			
Lancaster, Pa	do	49,962	10	1				4		2		30			
Lawrence, Mass	do	76,042	31	4	7	3	1	4		3	1	31	1		
Lebanon, Pa	do	20,295						3							
Do	Mar. 26		8		2			4	2	5	2				
Lexington, Ky	Mar. 19	30,690	7	1	2			2				4			
Los Angeles, Cal	Mar. 12	a 103,000	83	10	12	2		12	1	3		587	2	6	
Lowell, Mass	Mar. 19	95,125	42	1	3		1	5	1	3		73	1		
Lynchburg, Va	do	29,457		1				3				1			
Lynn, Mass	do	83,865	22	4	3	5	1	8		4	1	2			
Madison, Ind	do		1	1								1			
Malden, Mass	do	41,535	16		2			6	1	3		1			
Manchester, N. H	do	68,561	19	2	2		1			2	1	2			
Mansfield, Ohio	do	21,390				1						10			
Marinette, Wis	do	14,682	5	1	1										
Marlboro, Mass	do	14,444						2		1		44			
Massillon, Ohio	do	13,610	3		1			8		1		68			
Medford, Mass	do	20,839	5							1		11			
Melrose, Mass	Mar. 12	15,361	1	1				4		1					
Do	Mar. 19		4					1		3		1			
Memphis, Tenn	do	136,363	58	6	6			4	1	2					
Milwaukee, Wis	do	332,495	124	22	11	23	3	42	2	14	2	60	1	13	2
Mobile, Ala	Mar. 5	45,122	16		1					1					
Do	Mar. 12		22		4										
Moline, Ill	Mar. 19	23,081	7		1			2		3					
Montclair, N. J	do	18,296	8	1				7		2		6			
Montgomery, Ala	do	43,927	24		4									6	
Monticello, Ind	do														
Morristown, N. J	do	12,849	12							1	1	5			
Mount Vernon, N.Y.	do	27,891	2	1		2		1				4			
Muskegon, Mich	do	20,995		2						1		1			
Nanticoke, Pa	Mar. 21		4												
Nashville, Tenn	Mar. 19	106,476	29	4	1			1							
Nebraska City, Nebr.	do		1					1				4			
Newark, N. J	do	308,669	110	13	14		1	42		26	3				
New Bedford, Mass	do	83,898	38	4	1			6				42			
Newburyport, Mass	do	14,832	8		2							95			
New Orleans, La	do	327,662	144	37	14	3	1	44	2	11		157	1		
Newport, Ky	do	31,345	12		2										
New York, N. Y	do	4,450,963	1,642	760	198	24	11	708	27	447	60	1,620	20	34	4
Niagara Falls, N. Y.	do	32,012	20		1	3	1	2				56			
Norristown, Pa	Mar. 12	24,491	8	15				2		1					
Do	Mar. 19		9			2		4		1					
North Adams, Mass	do	20,510	4					1							
Northampton, Mass	do	21,008	7												
North Weymouth, Mass	do	11,793			1										
Orange, N. J	do	27,669	7	5	1			3		2		7	1		
Palmer, Mass	Mar. 5		6					3	2					2	
Do	Mar. 12		5					2	2	2					
Peekskill, N. Y	Mar. 19	15,473	3		1							1			
Philadelphia, Pa	do	1,491,082		88	72	25	8	38	4	63	7	41		19	3
Pittsburg, Pa	do	27,589	237	42	30	12	5	12	1	13	5	175	2	27	2
Plainfield, N. J	do	20,947	4	2	1										
Plymouth, Pa	do	17,524		4				1				13			
Portsmouth, N. H	do	11,336													
Pottstown, Pa	do	14,065	7		2			2				12			
Providence, R. I	do	217,065	105	4	10	1	1	13	1	9	1	18	1		2
Racine, Wis	do	34,840	12	1	1					1	1				
Reading, Pa	Mar. 21	97,231	26	3		7		7		3		54		10	
Rock Island, Ill	Mar. 19	24,766	12	3	2	9		2							
Sacramento, Cal	Mar. 12	31,889	13		2					2		26			
Do	do		23		3					1		26			
Saginaw, Mich	Feb. 26	51,941	13			2				2		4			
Do	Mar. 12		12							1		1			
Do	Mar. 5		12	1	1					2					
St. Louis, Mo	Mar. 19	686,369	262	40	27	6	4	64	6	20	2	51		25	2
Sandusky, Ohio	do		4												
San Francisco, Cal	Mar. 5	b 342,782	118	25	17	5	3	8		16		68		13	
Do	Mar. 12		151	34	23	1		11		15	1	24	7	3	2
San Jose, Cal	do	24,596	8		1										

a Population, 1900. No estimate 1909. b Estimated population 1906. No estimate 1909.

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Estimated population 1909.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Schenectady, N. Y.	Mar. 19	73,037	24	1	3			7	1	3	1	36			
Somerville, Mass.	do	75,375	24	2	1			7		2		3			
South Bend, Ind.	do	49,321	8	1				5							
South Bethlehem, Pa.	do	15,886	5	1		1		1		2	1	15			
South Omaha, Nebr.	do	42,146	1			1	1	1							
Spokane, Wash.	Mar. 12	[a] 47,066	22		2			3		2		18	1		1
Springfield, Mass.	Mar. 19	82,724	41	4	2		1	8	3	8		13	1	1	1
Springfield, Ohio	do	43,975	10	2	2					2		78			
Steelton, Pa.	do	14,769	6	2				6		5	2	4		1	
Superior, Wis.	do	40,919	12				1	6	1	1					
Tacoma, Wash.	Mar. 12	[a] 37,714	19		1	1		7							
Taunton, Mass.	Mar. 19	30,926	11					1				2			
Terre Haute, Ind.	do	55,509	24	2	1			1				53			
Titusville, Pa.	do	8,397	2												
Toledo, Ohio	Feb. 19		47		2	7	1	6		7		70	2		
Do	Feb. 26		38		2	4	1	1		6	3	166	3		1
Do	Mar. 5		37		5	6	1	10	1	3	2	132			
Do	Mar. 12		49		4	5	2	5		3	1	132			
Topeka, Kans.	Mar. 19		0												
Trenton, N. J.	Feb. 19	92,878	6	5	4	1		9		3	2				
Utica, N. Y.	do	69,458	21	2	1			3				34		1	
Waltham, Mass.	do	28,522	10	2		1				1		1			
Washington, D. C.	Mar. 23	322,212	160	21	28	3	1	38	1	4		10		20	
West Newton, Mass.	Mar. 19	39,419	12	1				3				3			
Wichita, Kans.	do	39,612	17							1		40			
Wilkes-Barre, Pa.	do	64,323	19	3	1			7		3	1	1		6	
Wilkinsburg, Pa.	do	19,999	8	1	1			1				1			
Williamsport, Pa.	do	30,220	10		3	1		10		2		16			
Wilmington, Del.	do	88,980	34		4										
Woburn, Mass.	do	14,520	5			1						2			
Yonkers, N. Y.	do	72,200	25	3	1			10	1	7	2	3			
York, Pa.	do	41,895		6		2		1		3		1			
Zanesville, Ohio	do	25,614	6			31				1					

[a] Estimated population 1906. No estimate 1909.

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

CALIFORNIA—*Sacramento.*—Month of February, 1910. Population, 55,000. Total number of deaths from all causes 53, including measles 1, tuberculosis 12. Cases reported: Typhoid fever 3, smallpox 4, measles 50, scarlet fever 2, diphtheria 3, tuberculosis 3.

FLORIDA.—Week ended March 19, 1910. Reports from the state board of health show typhoid fever present in 2 localities with 2 cases; smallpox in 1 county (Duval) with 1 case; diphtheria in 3 localities with 3 cases; tuberculosis in 5 localities with 5 cases.

Tampa.—Month of February, 1910. Population, 28,410. Total number of deaths from all causes 42, including typhoid fever 1, measles 2, tuberculosis 4. Cases reported: Typhoid fever 1, measles 27, diphtheria 6.

ILLINOIS — *Quincy.*— Month of February, 1910. Population, 43,000. Total number of deaths from all causes, 50, including diphtheria 1, tuberculosis 3. Cases reported: Typhoid fever 4, measles 1, scarlet fever 6, diphtheria 12.

INDIANA.—Month of January, 1910. Reports from the state board of health show a total of 2,883 deaths, urban population 1,074,289, deaths 1,426, rural population 1,690,240, deaths 1,457, including typhoid fever 47, scarlet fever 16, tuberculosis 392. Cases reported: Typhoid fever 131 in 40 counties, smallpox 189 in 25 counties, scarlet fever 616 in 63 counties.

IOWA—*Cedar Rapids.*—Month of February, 1910. Population, 35,000. Total number of deaths from all causes 28, including typhoid fever 2, tuberculosis 1. Cases reported: Scarlet fever 2.

MARYLAND.—Month of December, 1909. Population 1,319,132. Total number of deaths from all causes 776, including typhoid fever 17, measles 6, scarlet fever 4, diphtheria 9, tuberculosis 88. Cases reported: Typhoid fever 83, smallpox 4, measles 98, scarlet fever 62, diphtheria 61. The typhoid fever cases were distributed as follows: Potomac River watershed 35, Patapsco River watershed 5, Patuxent River watershed 10.

MASSACHUSETTS.—Week ended January, 1910. Population of reporting towns 2,401,701. Total number of deaths from all causes 911, including typhoid fever 10, measles 1, scarlet fever 5, diphtheria 13, tuberculosis 84. Week ended January 8, 1910. Total number of deaths from all causes 853, including typhoid fever 3, measles 4, scarlet fever 3, tuberculosis 68. Week ended January 15, 1910. Total number of deaths from all causes 771, including typhoid fever 4, measles 4, scarlet fever 2, diphtheria 12, tuberculosis 58. Week ended January 22, 1910. Total number of deaths from all causes 893, including typhoid fever 3, measles 5, scarlet fever 3, diphtheria 19, tuberculosis 81. Week ended January 29, 1910. Total number of deaths from all causes 807, including measles 5, scarlet fever 1 diphtheria 14, tuberculosis 94.

MINNESOTA—*St. Paul.*—Month of December, 1909. Population 230,000. Total number of deaths from all causes 211, including typhoid fever 6, measles 1, diphtheria 13, tuberculosis 21. Cases reported: Smallpox 1, measles 13, scarlet fever 87, diphtheria 119.

MISSOURI—*Springfield.*—Month of February, 1910. Population 35,000. Total number of deaths from all causes 54, including diphtheria 1, tuberculosis 6. Cases reported: Scarlet fever 8, diphtheria 2.

NEW YORK.—Month of February, 1910. Population 8,871,720. Total number of deaths from all causes 12,863, including typhoid fever 87, measles 166, scarlet fever 225, diphtheria 259, tuberculosis 1,371. Cases reported: Typhoid fever 456, smallpox 38, measles 9,726, scarlet fever 3,655, diphtheria 2,018, tuberculosis 2,416.

Auburn.—Month of February, 1910. Population 38,500. Total number of deaths from all causes 49, including tuberculosis 5. Cases reported: Typhoid fever 1, scarlet fever 16, diphtheria 2, tuberculosis (pulmonary) 8.

FOREIGN AND INSULAR.

CHINA.

AMOY—Smallpox.

Acting Assistant Surgeon Moorhead reports, February 21:

Week ended February 19. Smallpox is present in the international settlement of Kulangsu, and smallpox deaths among children are reported from the mission districts of Amoy. A case of smallpox among the foreign crew of a regular passenger steamship running between Amoy and Hongkong was landed at Hongkong. It is believed that the infection was acquired in Amoy.

SHANGHAI—Smallpox—Inspection of Vessels.

Acting Assistant Surgeon Ransom reports, February 24 and March 2:

Week ended February 19. The weekly report of the municipal health officer shows 1 new case of smallpox among foreigners and 5 deaths from smallpox among natives. During the corresponding period of last year there was but 1 death from smallpox among natives. Reports from Hankow show smallpox present in the native city.

Week ended February 26. Two deaths from smallpox were reported among natives at Shanghai. Supplemental bills of health were granted to 3 steamships having an aggregate personnel of 733. Vessels inspected, 2; members of crews and steerage passengers inspected, 132 and 9, respectively; manifests viséed for 8,256 pieces of freight, of which 88 pieces consisted of human and other hair, and hides, disinfected; 11 pieces of baggage disinfected.

CUBA.

CIENFUEGOS—Inspection of Vessels.

Acting Assistant Surgeon Suarez reports, March 16:

Week ended March 12. Vessels inspected, 3; bills of health issued, 3; members of crews of outgoing vessels inspected, 77.

No quarantinable disease reported.

HABANA—Inspection of Vessels.

Acting Assistant Surgeon Villoldo reports, March 22:

Week ended March 19. Bills of health issued, 32; vessels inspected, 27; members of crews of outgoing vessels inspected, 1,490; passengers of outgoing vessels inspected, 1,342.

No quarantinable disease reported.

MATANZAS—Inspection of Vessels.

Acting Assistant Surgeon Nuñez reports, March 21:

Week ended March 19. Bills of health granted to 10 vessels clearing for United States ports.

No quarantinable disease reported. The department of sanitation reports the inspection of 3,759 houses from March 1 to 10.

SANTIAGO—Inspection of Vessels.

Acting Assistant Surgeon Wilson reports, March 15 and 16:

Week ended March 5. Bills of health issued to 8 vessels. Week ended March 12. Bills of health issued to 8 vessels. These vessels were all bound for the United States and its dependencies.

The department of sanitation reports for the week ended March 5, 2,714 houses inspected, and for week ended March 12, 1,800 houses inspected.

No quarantinable disease was reported.

INDIA.

CALCUTTA—Cholera, Plague, and Smallpox.

Acting Assistant Surgeon Allan reports, February 24:

Week ended February 12. At Calcutta, there were 51 deaths from cholera and 13 from plague; in all Bengal, 2,498 cases of plague with 2,120 deaths; in all India, 17,412 cases of plague with 15,286 deaths.

ITALY.

NAPLES—Examination of Emigrants—Smallpox.

Surgeon Geddings reports, March 7:

Vessels inspected at Naples and Palermo week ended March 5.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Mar. 2	Roma	New York	880	80	1,150
2	Duca di Genova	do	1,292	105	1,580
3	Italia	do	373	35	650
4	Batavia	do	986	50	1,270
4	San Giorgio	do	528	40	870
4	König Albert	do	1,291	120	1,650
4	Saxsonia	do			
5	Canopic	Boston	1,168	115	1,320
	Total		6,518	545	8,490

PALERMO.

Mar. 4	Italia	New York	610	1,150	350
5	San Giorgio	do	511	700	300
	Total		1,121	1,850	650

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Smallpox.	Other causes.	Total.
Mar. 2	Roma	7	2	7			3	19
2	Duca di Genova	15	5	6		1	12	39
3	Italia	4	4	3			5	16
4	Batavia	12	3	11			7	33
4	San Giorgio	17	1	6	1		4	29
4	König Albert	13	5	8	1		8	35
4	Saxsonia							
5	Canopic	14	5	10			2	31
	Total	82	25	51	2	1	41	202

PALERMO.

Mar. 4	Italia	29		32			2	63
5	San Giorgio	26		48			3	77
	Total	55		80			5	140

Smallpox in Naples.—During the week ended March 6, 23 cases of smallpox with 4 deaths were reported at the health office of the city of Naples.

A case of smallpox was discovered at the examination of steerage passengers for the steamship *Duca di Genova* March 2. The patient was sent to the Cotugno Hospital for contagious diseases. Fifteen contacts were revaccinated and placed under observation and their boarding house was disinfected.

JAPAN.

YOKOHAMA—Inspection of Vessels—Plague Rats at Kobe.

Surgeon Irwin reports, February 28:

Week ended February 26. Vessels inspected: Steamships *Ning Chow*, for Manila, crew 96, steerage passengers 52, and *Korea* for San Francisco, crew 281, cabin passengers 68, steerage passengers, 549.

At Kobe 13 cases of plague have been reported since January 1, and plague-infected rats continue to be found.

Smallpox is reported present in the village of Ilmyonkyo, Province of South Choule, Korea.

KOBE—Inspection of Vessels—Plague.

Acting Assistant Surgeon Smith reports, March 2:

Week ended February 26. Supplemental bills of health issued to 4 steamships; members of crews inspected, 498; steerage passengers inspected, 560; members of crews and steerage passengers bathed, 2 and 265, respectively; pieces of baggage and bedding steamed, 768 and 530; manifests viséed for 48,899 pieces of freight amounting to 3,629 tons.

Emigrants inspected and passed.—Per steamship *Korea* for Honolulu, 260; for San Francisco, 5. Twenty Japanese and 150 Russians were 7 days in quarantine detention at Ono before embarkation; 95 Russians were landed direct from ship at quarantine detention station (1 day in quarantine) and transferred from Ono detention station to steamship *Korea*.

The official returns of infectious disease show 1 case of plague.

MEXICO.

Report from the Superior Board of Health of Mexico.

In compliance with articles 1 and 2 of the International Sanitary Convention held at Washington, October 9–14, 1905, the president of the Superior Board of Health of Mexico reports, March 21, that no case of yellow fever and no death from the said disease were registered in the Mexican Republic during the week ended March 19, and that the prophylactic measures reported under date of September 28, 1908, continue to be carried out.

COATZACOALCOS—Inspection of Vessels.

Acting Assistant Surgeon Thompson reports, March 17:

Week ended March 16. Vessels inspected: March 14, steamship *Texas* for Galveston via Veracruz; March 15, steamship *San Cristobal* for Mobile; March 16, steamships *Massachusetts* for Delaware Breakwater, *Californian* for Veracruz, and *Hermann Menzell* for Texas City.

PERU.

CALLAO—Fumigation of Vessels—Plague.

Acting Assistant Surgeon Castro-Gutierrez reports, February 24 and March 9:

Week ended February 19. Three steamships and 2 sailing vessels having an aggregate personnel of 217 and carrying 63 cabin and 9 steerage passengers were fumigated. Week ended February 26. Three steamships, crews 205, cabin and steerage passengers 120 and 47 respectively, inspected; two of these vessels were fumigated.

Two cases of plague have occurred at Callao, 1 on February 2 and 1 February 7. At Mollendo 6 cases of plague with 2 deaths were reported February 25 as having occurred during the previous 2 weeks and mortality among rats was observed in certain parts of the town. Plague is reported present at Lomas, Peru.

On February 18 the steamship *Ammon* arrived at Callao with a case of plague on board among the crew. The *Ammon* had previously been dispatched, after fumigation, from Callao for Guayaquil, where the vessel took on cargo, proceeding to Salina Cruz via Mexican and Central American ports and leaving Salina Cruz for Callao January 31. The patient was taken ill February 10. The disease was recognized as plague on inspection at Callao and the patient was removed to the lazaretto at Lima. The vessel was fumigated and the clothing and bedding of the crew were disinfected on shore. The *Ammon* then continued her voyage to Pisco, Peru, where the port physician declared the existence of a second case on board. It is believed that infected rats were taken on with the cargo at Guayaquil.

PHILIPPINE ISLANDS.

Passed Assistant Surgeon Victor G. Heiser, chief quarantine officer for the Philippine Islands, reports, February 1 and 10:

Cholera Outbreak from Infection on Lighter.

There has been a steady decline in the number of cholera cases in Manila and throughout the provinces. With one exception the disease has been occurring only in isolated and scattered form over a widely distributed section of the country.

The importance, however, of the constant vigilance which is necessary in order to avoid a general outbreak is well shown by the experience of a few weeks ago. A casco (lighter) proceeded from Limay, Bataan, to Cawit, Cavite, with 12 persons on board.

This is a trip across Manila Bay of but a few hours' duration and between ports in which no quarantine inspection takes place. One of the persons was suffering from cholera at the time he embarked, and at the time the casco reached Cawit a number of cases had occurred. These were surreptitiously landed, and the presence of the disease was concealed from the authorities. A period of 3 days passed before the presence of cholera became known, and, during this period, more than 50 cases occurred. Most energetic measures were at once instituted to eradicate the infection, and the number of cases has now been reduced to about 2 per day, with every prospect of the disease being completely eliminated within a very short time.

Experiences of this kind again demonstrate the necessity of maintaining at least a certain amount of vigilance over the shipping of the Philippine Islands, and show that the time has not yet arrived when the inspection of vessels can be entirely confined to arrivals from foreign ports.

Cholera in the Provinces.

WEEK ENDED JANUARY 29.

Province.	Cases.	Deaths.
Bataan	19	16
Bohol	2	3
Cavite	59	42
Misamis	2	1
Pampanga	15	13
Total	97	75

WEEK ENDED FEBRUARY 5.

Bataan	37	29
Bohol	5	2
Cavite	36	37
Cebu	35	25
Misamis	20	11
Pampanga	7	6
Total	140	110

WEEK ENDED FEBRUARY 12.

Bataan	4	1
Bohol	5	3
Cavite	6	4
Misamis	7	10
Pampanga	3	.....
Total	25	18

Quarantinable Diseases in Manila.

Week ended January 29. In the city of Manila 6 cases of cholera with 6 deaths, and 4 cases of smallpox were reported; week ended February 5, 5 cases of cholera with 5 deaths, and 2 cases of smallpox; week ended February 12, 3 cases of cholera with 3 deaths, and 1 case of smallpox.

Inspection of Vessels.

January 24, the Norwegian steamship *Standard*, with 39 in crew, en route from Phnom Penh to Iloilo, granted a supplemental bill of health. January 25, the American steamship *Minnesota*, with 269 in crew and 102 cabin and 64 steerage passengers, granted a bill of health for Seattle via Hongkong and Japan ports. Cargo inspected and passed before loading, and cargo manifests signed. Personnel inspected at hour of sailing. January 29, the Norwegian steamship *Solstad*, with 40 in crew, en route from Phnom Penh to Iloilo, granted a supplemental bill of health. February 5, the American steamship *Korea*, with 281 in crew and 58 cabin and 317 steerage passengers, granted a bill of health for San Francisco via Hongkong and Japan ports. Cargo inspected and passed during loading. Manifests for same signed. February 5, the British steamship *Oceano*, with 58 in crew, granted a bill of health for Seattle via Cebu, Hongkong, and Japan ports. Cargo taken on at this port inspected and passed prior to loading, and manifests for same signed. February 12, Norwegian steamship *Rygja* with 42 in crew granted a bill of health for Portland, Oreg., via Hongkong, Japan ports, and Honolulu. Cargo inspected and passed prior to loading and manifests for same signed. Vessel fumigated throughout while in port. Quarantine regulations for incoming interisland vessels at the port of Manila were modified during the week ended February 12.

RUSSIA.

Typhus Fever—Examination of Emigrants.

Acting Assistant Surgeon De Forest, at Libau, reports, March 14:

Week ended March 12. At Riga from March 7 to 12, 102 cases of typhus fever with 20 deaths were reported; from January 30 to March 12, 692 cases. At Reval 1 case of typhus fever was reported March 7.

The plague outbreak in the government of Astrakhan is extinct.

For the steamship *Lituania* sailing for New York, March 15, 912 emigrants were examined. Six cases of smallpox were found among them. The cases were isolated and the remaining emigrants vaccinated.

VENEZUELA.

LA GUAIRA—Inspection of Vessels.

Acting Assistant Surgeon Kellogg reports, March 6:

Week ended March 5. Vessels inspected: February 28, steamship *Zulia* for New York, crew 51; March 2, steamship *Wm. Cliff* for Galveston, crew 45, passengers in transit 3; March 4, steamship *Prins Willem V*, for New York, crew 89, passengers in transit 6, taken on at this port 9.

No quarantinable diseases were reported at La Guaira or Maiquetia.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended April 1, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo	Feb. 13-19	5		
India:				
Bombay	Feb. 16-22		2	
Philippine Islands:				
Manila	Jan. 23-Feb. 12	14	14	
Provinces—				
Bataan	Jan. 23-Feb. 12	60	46	
Bohol	Jan. 23-Feb. 12	12	8	
Cebu	Jan. 30-Feb. 4	35	25	
Cavite	Jan. 23-Feb. 12	101	83	Jan. 1-Feb. 12, 50 cases from a coasting vessel.
Misamis	Jan. 23-Feb. 12	29	22	
Pampanga	Jan. 23-Feb. 12	25	19	

PLAGUE.

Brazil:				
Bahia	Jan. 30-Feb. 11	5	3	
Santos	Feb. 2			Present.
Chile:				
Iquique	Feb. 24			Endemic.
China:				
Hankow	Feb. 1			Present.
India:				
Bombay	Feb. 16-22		88	
Kurrachee	Feb. 13-19	86	78	
Japan:				
Kobe	Feb. 20-26	1		
Peru:				
Callao	Feb. 2-7	2		
Lima	Feb. 11-25	1		In lazaretto from s. s. Ammon.
Mollendo	Feb. 11-25	6	2	
Pisco	Feb. 19	1		From s. s Ammon.
Siam:				
Bangkok	Dec. 26-Jan. 22	6	5	
Turkey in Asia:				
Jiddah	Mar. 2-6	12	12	

SMALLPOX.

Abyssinia:				
Adis Ababa	Feb. 19			Epidemic.
Austria:				
Bohemia	Feb. 20-26	1		
Galicia	Feb. 20-26	8		
Brazil:				
Bahia	Jan. 30-Feb. 11	45	29	
Pernambuco	Jan. 1-15		44	
Rio de Janeiro	Feb. 11-27	2		
Canada:				
Ontario—				
Port Arthur	Mar. 11-19	5		
Ceylon:				
Colombo	Feb. 6-12	5		
China:				
Amoy	Feb. 6-12		1	
Canton	Jan. 21-Feb. 23	55	9	
Hankow	Feb. 12			Present.
Hongkong	Jan. 30-Feb. 19	7	2	
Shanghai	Feb. 9-27	2	9	Deaths among natives.
Egypt:				
Cairo	Feb. 27-Mar. 4		1	
Germany, general	Mar. 6-12	6		
Bremen	Feb. 27-Mar. 5	1		
Great Britain:				
London	Jan. 31-Mar. 5	1		
Newcastle-on-Tyne	Jan. 31-Mar. 5		1	
Greece:				
Athens	Feb. 20-26		2	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received During Week Ended April 1, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy, general	Feb. 28-Mar. 6	9		
Naples	Feb. 28-Mar. 6	23	4	
India:				
Bombay	Feb. 16-22		34	
Madras	Feb. 12-18		1	
Kurrachee	Feb. 13-19	2		
Japan:				
Formosa	Feb. 13-19	7	2	
Java:				
Batavia	Feb. 6-12	1		
Korea:				
Ilmyokyo	Feb. 26			Present.
Mexico:				
Aguascalientes	Mar. 6-12		3	
Guadalajara	Mar. 5-11		1	
Philippine Islands:				
Manila	Jan. 23-Feb. 12	7		
Portugal:				
Lisbon	Feb. 26-Mar. 5	27		
Russia:				
Libau	Feb. 29-Mar. 6	6		
Odessa	Feb. 20-Mar. 5	1		
Riga	Feb. 28-Mar. 5	66	14	
St. Petersburg	Feb. 20-26	50	14	
Warsaw	Jan. 9-22		42	
Siberia:				
Vladivostok	Jan. 28-Feb. 5	3		
Singapore:				
Straits Settlements	Feb. 6-12		2	
Spain:				
Barcelona	Mar. 1-7		1	
Vigo	Feb. 27-Mar. 5			Present in vicinity.
Turkey in Asia:				
Trebizond	Mar. 5			Present.

Reports Received from January 1 to March 25, 1910.

For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Germany:				
Heydekrug	Nov. 19-Dec. 4	2		
Niedrung	Nov. 16-22	1		
India:				
Bombay	Nov. 24-Feb. 8		19	
Calcutta	Nov. 14-Feb. 5		410	
Madras	Jan. 1-Feb. 4		2	
Rangoon	Nov. 14-Jan. 22		41	
Java:				
Batavia	Nov. 14-Mar. 5	388	111	
Norway:				
Friedershald	Dec. 31-Jan. 3	1	1	From a vessel from Riga.
Persia:				
Astara	Dec. 1-15	36	22	
Philippine Islands:				
Manila	Nov. 7-Jan. 22	95	81	Third quarter, 1909. Cases 82, deaths 61.
Provinces				Third quarter, 1909. Cases 3,946, deaths 2,609.
Albay	Nov. 7-20	6	6	
Bataan	Nov. 7-Jan. 22	155	106	
Bohol	Nov. 7-Jan. 22	35	20	
Bulacan	Nov. 7-Jan. 1	32	27	
Camarines	Nov. 7-20	5	5	
Capiz	Nov. 21-Dec. 18	3	2	
Cavite	Nov. 7-Jan. 22	105	76	
Cebu	Nov. 7-Jan. 22	288	226	Nov. 20, 1 case on s. s. Yaptico.
Laguna	Dec. 19-25	4	4	
Leyte	Nov. 21-Jan. 15	36	32	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to March 25, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Continued.				
Provinces—Continued.				
Misamis	Jan. 16-22	11	11	
Oriental Negros	Nov. 7-20	10	5	
Pampanga	Nov. 7-Jan. 22	157	124	
Rizal	Nov. 7-Jan. 22	11	7	
Tarlac	Nov. 7-13	9	5	
Russia, general	Nov. 21-Jan. 29	440	203	
Baku, government	Nov. 21-Dec. 25	22	22	
Baku	Nov. 21-Jan. 15	27	17	
Don, territory	Nov. 28-Jan. 29	19	12	
Ekaterinslav, government	Nov. 21-Jan. 1	23	7	
Jaroslav, government	Nov. 21-27		1	
Kaluga	Dec. 26-Jan. 1	1		
Kostroma, government	Nov. 21-27	3	4	
Kovna, government	Nov. 21-27	8	3	
Kursk, government	Nov. 21-Dec. 11	6		
Moscow, government—				
Moscow	Nov. 29-Jan. 22	256	115	
Pskov, government	Nov. 21-27	10		
St. Petersburg, government	Nov. 21-Dec. 18	14	12	
St. Petersburg	Nov. 21-Jan. 1	53	12	
Taurida, government	Nov. 21-Dec. 25	66	28	
Vitebsk, government	Nov. 21-27	2		
Siam:				
Bangkok	Oct. 28-Jan. 22	12	12	
Siberia:				
Vladivostok	Nov. 16-21	1		
Straits Settlements:				
Singapore	Dec. 19-Jan. 15		4	
Sumatra:				
Palembang	Sept. 20-Oct. 20	936	675	
Turkey in Asia:				
Trebizond	Nov. 28	1		On a vessel from Batum.

YELLOW FEVER.

Brazil:				
Manaos	Nov. 21-Feb. 26		48	
Para	Nov. 28-Feb. 26	66	52	
Ecuador:				
Babahoyo	Jan. 1-Feb. 15	4		
Guayaquil	Dec. 1-Feb. 15	107	31	
Peru:				
Callao	Nov. 2-Dec. 2	1	1	From s. s. Loa.
Mexico:				
Yucatan—				
Merida	Dec. 20-21	1	1	
Santa Cruz de Bravo	Dec. 20	1	1	
Panama:				
Canal Zone—				
Ancon	Jan. 24		1	At Ancon hospital, from s. s. Barbadian.
Culebra Island	Mar. 1-8	1	1	At Culebra quarantine station, from s. s. Huallago.
Trinidad:				
Port of Spain	Nov. 28-Dec. 4	1	1	

PLAGUE.

Arabia:				
Aden	Jan. 21-23	1	1	From an Austrian mail steamer from Bombay.
Brazil:				
Bahia	Nov. 20-Feb. 28	49	25	
Para	Nov. 28-Feb. 19	12	9	
Pernambuco	Oct. 15-Dec. 31		21	
Rio de Janeiro	Nov. 2-Jan. 23	16	2	
Santos	Nov. 1-Dec. 29	5	3	One case from bark Amazone Dec. 1.
Chile:				
Iquique	Feb. 12			Present in endemic form.
Taltal	Jan. 15	2	1	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to March 25, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Hankow	Nov. 27–Dec. 7	20	20	
Hongkong	Nov. 21–27	1	1	
Ecuador:				
Babahoyo	Dec. 16–Feb. 15	18	6	
Guayaquil	Dec. 1–Feb. 15	210	87	
Milagro	Jan. 1–Feb. 15	15	3	
Egypt:				
Alexandria	Nov. 19–Dec. 15	3	2	
Port Said	Nov. 30–Dec. 22	2	1	
Provinces—				
Assiout	Sept. 29–Feb. 17	30	11	
Beherach	Dec. 8–14	1	.....	
Beni Souef	Dec. 16–Feb. 17	19	8	
Fayoum	Jan. 20–Feb. 12	4	3	
Galioobeh	Jan. 11–Feb. 3	3	1	
Garbieh	Feb. 2	1	1	
Girgeh	Dec. 19–26	2	1	
Ghizeh	Dec. 19–Jan. 2	2	.....	
Kena	Feb. 3	.....	1	
Menouf	Nov. 28–Dec. 15	17	6	
Minieh	Dec. 21–27	3	1	
German East Africa:				
Mpwapwa	Sept. 19–Oct. 5	7	.....	
Hawaii:				
Hilo	Mar. 12–22	4	4	
Honokaa	Mar. 14–15	2	2	
India:				
Bombay	Nov. 24–Feb. 8	.....	135	
Calcutta	Nov. 14–Jan. 29	.....	8	
Kurrachee	Jan. 2–15	5	.....	
Madras	Dec. 18–Jan. 21	.....	3	
Rangoon	Nov. 20–Jan. 29	.....	38	
Bombay Presidency and Sind.	Nov. 7–Jan. 22	11,137	7,821	
Madras Presidency	Nov. 7–Jan. 22	1,011	705	
Bengal	Nov. 7–Jan. 22	8,109	6,509	
United provinces	Nov. 7–Jan. 22	36,037	33,019	
Punjab	Nov. 7–Jan. 22	14,277	11,704	
Burma	Nov. 7–Jan. 22	898	766	
Central provinces, including Berar.	Nov. 7–Jan. 22	10,322	8,355	
Coorg	Nov. 14–27	5	1	
Mysore State	Nov. 7–Jan. 22	1,388	1,020	
Hyderabad State	Nov. 7–Jan. 22	155	126	
Central India	Nov. 7–Jan. 22	850	638	
Rajputana and Ajmer-Merwara.	Nov. 7–Jan. 22	4,157	3,674	
Kashmir	Nov. 7–Jan. 22	165	110	
Grand total		88,511	74,448	
Indo-China:				
Saigon	Nov. 7–Dec. 25	5	4	
Japan:				
Kobe	Nov. 28–Feb. 12	24	20	
Shikoku Island	Jan. 30–Feb. 5	1	.....	
Paraguay	Dec. 10	.....	30	In the northern part.
Peru:				
Arequipa, department	Dec. 10–16	1	.....	
Mollendo	Dec. 20–Jan. 1	1	.....	
Callao, department—				
Callao	Jan. 17–25	3	.....	
Lambayeque, department	Oct. 1–Dec. 16	39	13	
Libertad, department	Nov. 19–Dec. 16	32	3	
Lima, department	Oct. 22–Dec. 16	10	6	
Russia:				
Astrakan, government	Dec. 5–Feb. 27	134	120	
Naourzali-Tchagil	Jan. 17–Feb. 2	26	26	
Beiskulak	Dec. 10–16	18	16	
Bodai	Mar. 1	9	.....	
Dschedda	Jan. 7	.....	.....	Present.
Libau	Dec. 3–9	1	1	
Uralsk, district	Nov. 25–Jan. 12	208	202	
Siam:				
Bangkok	Oct. 28–Nov. 27	5	5	
Straits Settlements:				
Singapore	Dec. 25–Jan. 1	2	2	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to March 25, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia:				
Beirut	Nov. 29-Dec. 14	3		
Jiddah	Jan. 5-Feb. 27	8	7	
Venezuela:				
Puerto Cabello	Feb. 24	2		
Zanzibar	Nov. 9-17	[a] 2	2	

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria, general	Dec. 1-15	22		
Algiers	Nov. 1-Jan. 31		3	
Bona	Dec. 1-Jan. 31	11	9	
Argentina:				
Buenos Aires	Oct. 1-Dec. 31		85	
Austria:				
Galicia	Jan. 1-29	3		
Vienna	Jan. 9-29	2		
Brazil:				
Bahia	Nov. 20-Jan. 28	205	135	
Pernambuco	Oct. 16-Jan. 15		205	
Rio de Janeiro	Nov. 2-Feb. 13	23	1	
Sao Paulo	Nov. 1-21		2	
Canada:				
British Colombia—				
Vancouver	Jan. 1-31	3		
Nova Scotia—				
Halifax	Dec. 19-Mar. 5	3		
Windsor	Dec. 1-Jan. 31	40		
Chile:				
Antofagasta	Jan. 1			Present. Feb. 12, 8 cases in lazaretto.
Quillota	Nov. 28-Dec. 4			Present.
Valparaiso	Nov. 20-Jan. 1			Do.
China:				
Amoy	Nov. 28-Feb. 5		7	
Canton	Dec. 12-Jan. 29	50	3	
Chang Cheun	Dec. 11			Do.
Chio Be	Dec. 11			Do.
Hankow	Jan. 2-15	1	1	Dec. 19-Feb. 5, present among natives.
Hongkong	Feb. 5	1		
Shanghai	Nov. 1-Feb. 8	1	9	Deaths among natives.
Cuba:				
Habana	Dec. 3-9	1		From S. S. La Navarre.
Ecuador:				
Guayaquil	Jan. 1-31	3		
Egypt, general	Nov. 5-Jan. 21	562	150	
Alexandria	Nov. 5-Jan. 21	20	19	
Cairo	Nov. 26-Feb. 18	13	3	
France:				
Nantes	Jan. 1-31	1		
Paris	Dec. 5-Mar. 5	98	12	
Germany, general	Dec. 5-Mar. 5	79		
Konigsberg	Dec. 12-Jan. 15	2	2	In vicinity.
Great Britain:				
Bristol	Feb. 6-12	1		
Greenock	Feb. 6-12	1		
Hull	Jan. 16-22	2		
Liverpool	Dec. 19-Feb. 5	9		
London	Nov. 28-Feb. 26	20		
Newcastle-on-Tyne	Feb. 13-19	3		
Nottingham	Jan. 16-26	4	1	
Plymouth	Nov. 12-18		1	
Southampton	Nov. 12-18	1		
South Shields	Feb. 13-19	1		
Greece:				
Athens	Nov. 22-Feb. 19	4	15	
Hawaii:				
Honolulu	Jan. 31-Feb. 4	3	1	2 cases Jan. 31 from U. S. S. Washington from Yokohama. 1 case Feb. 2 on s. s. Makura.
India:				
Bombay	Nov. 24-Feb. 15		173	
Calcutta	Nov. 14-Feb. 12		10	
Kurrachee	Jan. 2-Feb. 12	6		
Madras	Dec. 18-Jan. 21		3	
Rangoon	Nov. 20-Feb. 5		55	

[a] Bulletin Quarantenaire, March 10, 1910.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to March 25, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Saigon	Dec. 7-13	1		
Italy, general	Nov. 29-Feb. 27	224		
Genoa	Dec. 1-Feb. 28	19	1	
Milan	Jan. 1-16	1		
Naples	Dec. 6-Feb. 27	204	37	
Japan:				
Formosa	Feb. 6-12	3	2	
Kobe	Dec. 12-25	1	1	
Java:				
Batavia	Dec. 12-Feb. 5	8	1	
Korea:				
Fusan	Feb. 1-12	6	1	
Liberia:				
Monrovia	Nov. 28-Dec. 4	6		
Malta:				
Valetta	Dec. 12-Jan. 15	3	1	
Manchuria:				
Tie-ling	Feb. 19			Present.
Mexico:				
Aguascalientes	Dec. 12-Mar. 5		30	
Chihuahua	Dec. 13-Mar. 14	14	8	
Guadalajara	Jan. 29-Feb. 18		5	
Mexico	Nov. 14-Feb. 19		16	
Monterey	Nov. 13-Feb. 20		2	
Veracruz	Feb. 13-19	1		
Netherlands:				
Rotterdam	Dec. 5-11	7		
Persia:				
Arabistan	Dec. 6-31			Do.
Hamadan	Nov. 15-Dec. 31			Do.
Kurdistan	Dec. 6-31			Do.
Sultanabad	Nov. 15			Do.
Teheran	Nov. 1-Dec. 2			Do.
Peru:				
Callao	Dec. 6-12			Do.
Philippine Islands:				
Manila	Nov. 14-Jan. 22	16		Third quarter, 1909—Cases, 5; deaths, 0.
Portugal:				
Lisbon	Dec. 5-Feb. 26	182		
Porto Rico, general	July 1-Dec. 31	72	12	
Russia:				
Batoum	Dec. 1-31	5		
Libau	Dec. 6-Feb. 13	28		
Moscow	Nov. 21-Feb. 19	160	53	
Odessa	Nov. 21-Feb. 19	230	60	
Riga	Dec. 5-Feb. 26	43		Oct. 1-Dec. 31, 26 deaths.
St. Petersburg	Nov. 28-Feb. 19	553	168	
Warsaw	Oct. 24-Jan. 8		150	
Siam:				
Bangkok	Nov. 28-Jan. 22	5	4	
Siberia:				
Vladivostok	Jan. 15-28	2	2	
Spain:				
Almeria	Nov. 1-Dec. 31		10	
Barcelona	Dec. 14-Feb. 28		32	
Cadiz	Jan. 1-31		1	
Huelva	Nov. 1-Dec. 31		17	
Madrid	Dec. 1-Jan. 31		59	
Seville	Dec. 1-Jan. 31		10	
Tarragona	Feb. 20-26		1	
Valencia	Jan. 9-Feb. 19	4		
Vigo	Jan. 23-29		1	
Straits Settlements:				
Singapore	Jan. 22-Feb. 5		3	
Tripoli:				
Tripoli	Nov. 14-Dec. 25	242	24	
Turkey:				
Constantinople	Jan. 2-Feb. 6		2	
Turkey in Asia:				
Bagdad	Nov. 21-Jan. 31			Present.
Salonica	Jan. 1-31		3	
Smyrna	Nov. 5-Dec. 31		42	
Uruguay:				
Montevideo	Oct. 1-Dec. 31		36	

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from— Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	Mar. 6	185,703	49								1	2		1
Aguascalientes	Mar. 12	40,000	58	3				3	2					3
Aix la Chapelle	Feb. 26	161,712	43	3							1	2		
Amoy	Jan. 22	400,000	8	1						1				
Do	Feb. 5		3					1	1					
Do	Feb. 12							1						
Amsterdam	Mar. 5	568,131	128	15									2	2
Do	Mar. 12		160	18								1	4	1
Athens	Feb. 26	250,010	75	12				2				3		
Bahia	Feb. 4	265,000	110	17	2			17						
Do	Feb. 11		109	11	1			12						
Barcelona	Mar. 7	591,272	360	27				1		4		4	5	
Barranquilla	Mar. 5	40,000	17	1						2				
Basel	do	133,000	32	10										1
Batavia	Feb. 12	217,630	5						1					
Bradford	Mar. 5	295,865	82	5						1		2	2	
Belfast	do	391,167	165	32									1	11
Belgrade	do	80,000										1		
Bergen	do	87,749	25	2								2		1
Birmingham	Mar. 12	558,336	157							1	1	2		12
Bombay	Feb. 22	977,822	650	44	88	2		34		1			4	
Bremen	Mar. 5	235,648	59	13						1				
Bristol	Mar. 12	382,550	87	12						1		2	2	
Brussels	Mar. 5	720,030	187	15						2		1		
Budapest	do	807,200									2		5	2
Cairo	Mar. 4	677,663	358	36				1	2	3		6	5	
Canton	Feb. 5	1,000,000	150	25				3		5		3		
Do	Feb. 12		160	20				3		3		5		
Do	Feb. 19		125	20				3		3		3		
Chihuahua	Mar. 13	37,000	23	2						1				1
Christiana	Mar. 12	236,000	56	13								1	1	
Colombo	Feb. 12	187,564	108	16						2				
Do	Feb. 19		119	16						6			1	
Copenhagen	Feb. 26	455,000	145	11							3	2	1	2
Dalny	Feb. 19	37,819	43	2								1		
Dundee	Mar. 12	170,206	53	4							1	1	4	2
Edinburg	Mar. 5	360,276	83	7							1	1	2	1
Georgetown	Feb. 12	56,000	69	3						1		1		
Ghent	Mar. 5	165,475	71	9							1			1
Gibraltar	Mar. 13	26,830	15	2								1		
Glasgow	Mar. 11	872,021	299							3	3	9	28	1
Guadalajara	do	125,000	109					1	1					
Halifax	Mar. 19	50,000	20	2								3		
Hamburg	Mar. 5	895,804	238	24						1	4	8	2	1
Havre	do	132,430	62	13						1				
Hongkong	Feb. 19	336,488						2		1				
Hull	Mar. 18	280,006	96							2	1	3	2	3
Karachi	Feb. 19	130,000	140		78									
Kingston	Mar. 5	48,504								1				
Leeds	Mar. 12	490,985	119	5								1		1
Leipzig	Mar. 5	590,329	133	16						1	1	4		
Leith	do	86,767	31	1							1	1	6	
Liege	do	176,893	42	6									1	
Liverpool	Mar. 12	767,706	248	15							4	1	5	11
London	Mar. 5	7,537,196	1,883							6	7	15	45	57
Do	Mar. 12		1,784	58						4	9	12	20	
Lubeck	Mar. 5	97,500	30	5									1	
Lyons	Feb. 19	500,000	221	43							3	2	1	1
Do	Feb. 26		190	36						1		5		2
Madras	Feb. 18	550,000	376					1					6	
Manchester	Mar. 5	631,533	218								1			6
Do	Mar. 12		230	27							3	2	1	5
Montreal	Mar. 19	389,837	168	23						3	4	3		1
Munich	Feb. 26	576,000	208	35								2	1	
Naples	Mar. 5	593,729	288					4				1		
Newcastle-on-Tyne	do	281,584	78	8				1			1			1
Do	Mar. 12		88	14						1	1	1		
Nottingham	Mar. 5	260,000	76							2	2	1	2	
Odessa	Feb. 26	520,000	1,855	24				5		2	4	6	2	
Do	Mar. 5		218	21				9	1	1	7	6	3	

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from— Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Palermo	Feb. 12	335,000	192	8							1	6		
Do	Feb. 19		218	3							1	1	11	
Do	Feb. 26		175	7					1		2	1	3	
Paris	Feb. 5	2,776,394	958	207						2		9	14	8
Do	Mar. 5		970	210				6		5	4	9	24	6
Port of Spain	do	60,000	42	3						1				
Rio de Janeiro	Feb. 27	850,000	176							3			4	4
Rotterdam	Mar. 12	419,100	118								1			
St. Petersburg	Feb. 26	1,678,000	935	132				14	1	24	21	24	57	15
Salaverry	Mar. 9	1,800								1			1	
Santa Cruz de Teneriffe	Mar. 5	46,000	31	4							1	3	1	
Singapore	Feb. 12	271,060	225	25				2		1				
South Shields	Mar. 12	117,737	30	8										1
Stettin	Mar. 5	239,000	86	6							4	2	1	
Stockholm	Feb. 19	339,582	110	28								1	6	2
Smyrna	Jan. 7	400,000	67	13				1		3		1		
Do	Jan. 14		99	14						3				1
Do	Jan. 21		103	16						1		2		
Do	Jan. 28		71	13				1		2		1		
Do	Feb. 4		79	9						2				
Do	Feb. 11		85	12								1		
Do	Feb. 18		108	17				1		2				1
Sunderland	Mar. 5	160,796	59	6								2		1
Do	Mar. 12		56	6									1	3
Turin	Feb. 24	391,968	143	18							1	1	1	
Valencia	Mar. 5	240,000	135	7								2		
Vladivostok	Feb. 5	85,004	23	1						1	2			
Warsaw	Jan. 15	764,054	289	57				21		4	7		6	4
Do	Jan. 22		283	52				19	1	7	2	3	2	5
West Hartlepool	Mar. 12	66,750	13									1		
Winnipeg	do	122,000	25	2								1		
Yokohama	Feb. 28	392,870										1		

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES (untabulated).

ALGERIA — *Algiers.*—Month of February, 1910.—Population, 157,000. Total number of deaths from all causes, 313, including typhus fever 9, typhoid fever 1, tuberculosis 44.

AUSTRALIA—*Sydney.*—Month of December, 1909. Population, 592,100. Total number of deaths from all causes, 565, including typhoid fever 6, measles 1, diphtheria 1, tuberculosis 64.

BRAZIL—*Ceara.*—Month of January, 1910. Population, 40,790. Total number of deaths from all causes, 157, including typhoid fever 8, tuberculosis 12.

CANADA—*Vancouver.*—Month of February, 1910. Population, 78,900. Total number of deaths from all causes, 70, including typhoid fever 2, tuberculosis 10.

FRANCE—*Calais.*—Month of January, 1910. Population, 75,000. Total number of deaths from all causes, 115, including typhoid fever 1, scarlet fever 1, diphtheria 2, tuberculosis 29.

Month of February, 1910. Total number of deaths from all causes, 90, including typhoid fever 1, tuberculosis 20.

Nantes.—Month of February, 1910. Population 122,800. Total number of deaths from all causes, 295, including typhoid fever 2, tuberculosis 75.

GREAT BRITAIN.—Week ended February 26, 1910.

England and Wales.—The deaths registered in 76 great towns correspond to an annual rate of 14.7 per 1,000 of the aggregate population which is estimated at 16,713,617.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 22.8 of the aggregate population, which is estimated at 1,151,790. The lowest rate was recorded in Galway, viz, 3.9 and the highest in Newry, viz, 46.2 per 1,000 of the population.

Scotland.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,864,194 correspond to an annual rate of 16.2 per 1,000. The lowest rate was recorded in Paisley, viz, 12.8, and the highest in Greenock, viz, 24.1 per 1,000. The total number of deaths from all causes was 588, including typhoid fever 4, scarlet fever 8, measles 40, diphtheria 8, whooping cough 8.

INDIA—*Rangoon.*—Month of January, 1910. Population, 295,803. Total number of deaths from all causes 809, including typhoid fever 1, smallpox 28, tuberculosis 27, plague 12.

ITALY—*Milan.*—Period, February 16 to 28, 1910. Population, 900,000. Total number of deaths from all causes 65, including typhoid fever 1, scarlet fever 1, diphtheria 1, tuberculosis 60.

MALTA.—Two weeks ended February 26, 1910. Population, 212,888. Total number of deaths from all causes 102, including typhoid fever 7, tuberculosis 5.

NEW ZEALAND—*Auckland.*—Month of December, 1909. Population, 93,544. Total number of deaths from all causes 74, including typhoid fever 1, diphtheria 2, tuberculosis 7.

Christchurch.—Month of December, 1909. Population, 76,709. Total number of deaths from all causes 50, including tuberculosis 3.

Dunedin.—Month of December, 1909. Population, 61,279. Total number of deaths from all causes 44, including tuberculosis, 2.

Wellington.—Month of December, 1909. Population, 73,367. Total number of deaths 73, including diphtheria 1, tuberculosis 8.

PORTO RICO.—Month of December, 1909. Population, 1,053,963. Total number of deaths from all causes 3,022, including typhoid fever 15, measles 28, diphtheria 3, tuberculosis 217.

RUSSIA—*Riga.*—Month of December, 1909. Population, 355,000. Total number of deaths from all causes 569, including typhus fever 12, typhoid fever 9, smallpox 9, measles 1, scarlet fever 34, diphtheria 11.

SOUTH EAST AFRICA—*Lourenço Marquez.*—Month of January, 1910. Population, 10,000. Total number of deaths from all causes 31, including tuberculosis 9.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,
United States Public Health and Marine-Hospital Service.